

OPERATIONS AND MAINTENANCE  
MANUAL FOR  
CITYLINK WALKING ROUTE

## Introduction

There are multiple stakeholders of the walking route.

- Co-op Live
- City Football Group and Manchester City Football Club
- Manchester City Council
- Transport for Greater Manchester
- Network Rail

The core focus of this document is to outline the operational management of the walking route during Co-op Live events, from Holt Town to the Etihad Campus and the resources that will be deployed along the route to ensure visitor safety, enhance the visitor experience and promote a greater sense of personal safety to visitors as well as outlining maintenance regimes for keeping the route clean, tidy and maintained with adequate and scheduled checks.

The walking route will have a range of installations and activations to enhance the route that have the capability of lighting and audio with in limitations permitted.

A full list and inventory of the installation will be logged as assets to be managed by the Campus Management Team and can be found at the end of this document.

Along the walking route around a major event there will be stewards, SIA Security, Behavioural Detection Officers, cleaners and volunteers. In addition to the personnel, CCTV and additional lighting will be placed along the route to enable the deployed teams to proactively manage the route.

## Operational Information and Planning

### Operational Planning

As a public realm space that is owned and operated by many stakeholders, some that have been identified above, the route will require multiple plans for different modes of use. The below information concentrates and details operational staffing, and event cleaning, waste management during a Co-op Live event.

The event staff will be briefed and managed by the respective venue ops teams and all event day protocols and procedures that are observed and maintained by the venues shall apply to the walking route.

The technology behind the installations will be managed and operated from the Campus Management Suite.

The contact for event day operations of walking route system will be Duty Manager and they can be contacted via the Co-op Live Event Control Room on 07586 117 952 (24/7).

### Operational Timings

The CityLink Walking Route will be open for use by the general public, when the Etihad Campus is opened up in line with the Metrolink service;

- Monday to Friday: 0600 – 2359
- Saturday to Sunday: 0700 - 2359

**Co-op Live** events we will typically staff the walking route between 1500 and 2359, depending on type and category of event we may need to staff it earlier. Finish times for staff on the walking route will be midnight, the route will also close at midnight.

On MCFC match days, the route will be staffed in accordance with stadium operations, shutting no later than 2359.

## Communications Plan

The Cleaners, Stewarding and SIA Security teams on the route will have radios, if required they will have the ability to contact the Zone Ex manager and the Zone Ex controller in the event control room to report any issues or ask for assistance. The Zone Ex manager will have communication with the event control room that will then log these on 24/7 and allocate additional resources to the walking route if required.

The Zone Ex manager will have responsibility for the management of all teams in this space and regularly patrol and walk the staffed areas.

## GMP

Project Servator will incorporate the walking route for GMP overt and covert deployments from 5<sup>th</sup> February 2024. GMP's Specialist Operations will deploy resources to pulse on the walking route as well as the campus on the event days. This will include the full range of specialist operations resources.

## Pre-Post Event Checks/PEAPs

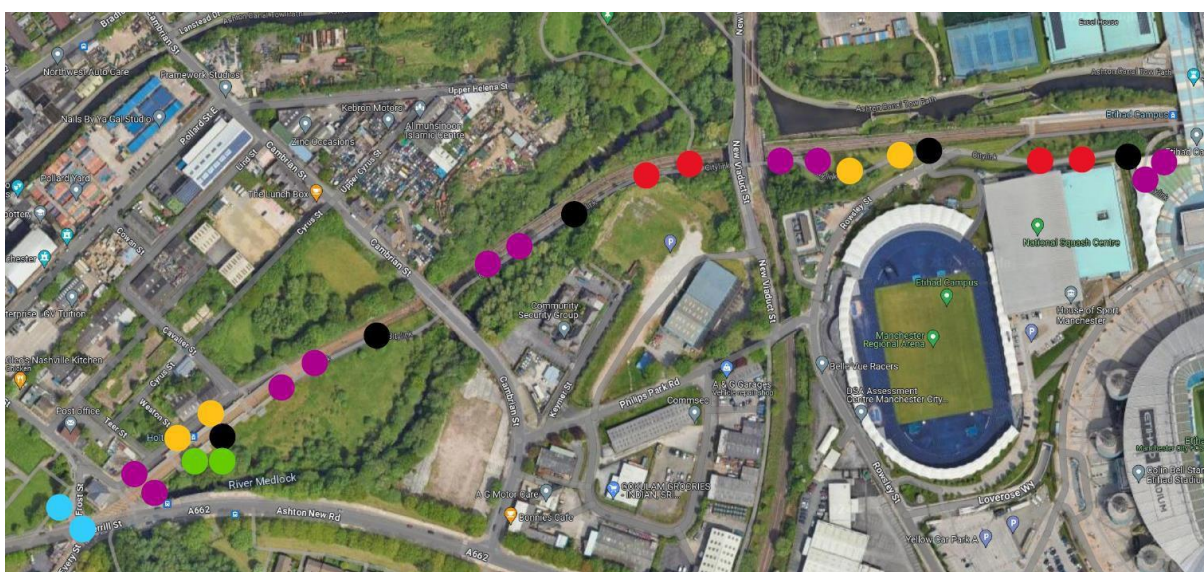
Pre and Post event checks will be conducted by the security and Zone Ex team pre and post the operating times stated. Defects and concerns will be documented, and appropriate action taken in a timely manner. PEAPs will be stored with the event control room and reviewed by the duty venue manager.

## Gate Protocols

The gates that allow access to the Etihad Campus will be managed by the Campus Management Team. They will open the gates to the Campus before the first tram and close them after the last tram has left and the site is clear of fans. The gates to the walking route will be closed at midnight when the Duty Venue Manager contacts the Campus Management Suite to inform them that it is clear of fans and staff.

## Walking Route Dot Plans

### Ingress Dot Plan



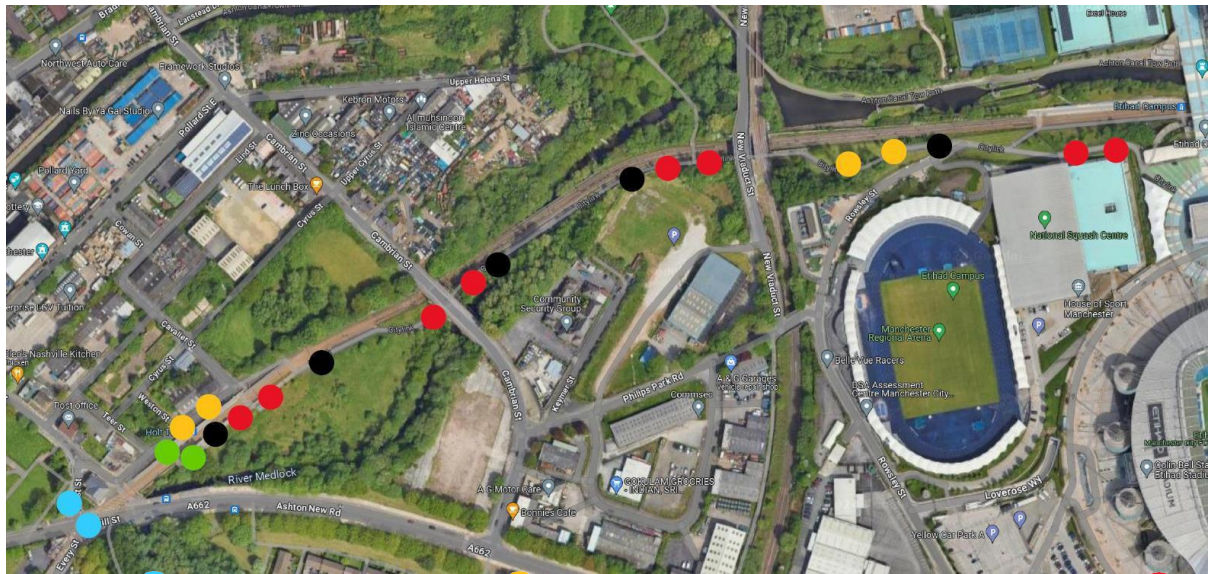
|            |   |              |   |                                        |   |
|------------|---|--------------|---|----------------------------------------|---|
| Stewards   | ● | SIA Security | ● | Additional Redeployment from the Arena | ● |
| Volunteers | ● | Cleaning     | ● | Metrolink Travel Safe Officer          | ● |

During The Event Dot Plan



- Stewards 
- SIA Security 
- Metrolink Travel Safe Officer 
- Cleaning 

Egress Dot Plan



- Stewards 
- SIA Security 
- Additional Redeployment from the Arena 
- Cleaning 
- Metrolink Travel Safe Officer 

The teams that will be deployed to the walking route will be briefed by the FOH team at the start of their shift. This briefing will cover all fan security and safety operations needed for this day, along with anything event specific, such as age and demographic of the fans coming to the venue.

The teams deployed on the walking route will;

- Monitor conditions
- Report hazards
- Engage fans and the local community to promote safe & responsible use of the walking route
- Control access
- Address suspicious and anti-social behaviour
- Manage potential conflicts
- Assist with fan queries
- Provide venue information
- Maintain cleanliness along the route

| Event Team                              | Number | Location                                                                                  | Briefed By |
|-----------------------------------------|--------|-------------------------------------------------------------------------------------------|------------|
| <b>Phase one (pre event)</b>            |        |                                                                                           |            |
| Steward                                 | 2      | Crossing one - near Holt Town                                                             | FOH Team   |
| SIA security                            | 2      | Holt Town Tram area                                                                       | FOH Team   |
| SIA security                            | 2      | Final third of the walking route                                                          | FOH Team   |
| Behavioural Detection Officer           | 2      | Roaming the Etihad Campus                                                                 |            |
| Cleaning Supervisor                     | 1      | Walking up and down the walking route                                                     | FOH Team   |
| Cleaning Team                           | 4      | Walking up and down the walking route                                                     | FOH Team   |
| Additional Re-deployment From the Arena | 2      | By the Etihad Campus Tram Stop the walking route                                          | FOH Team   |
| Additional Re-deployment From the Arena | 2      | Between the viaducts on the walking route                                                 | FOH Team   |
| Volunteers                              | 10     | Spread out along the route in pairs                                                       | FOH Team   |
| <b>Phase two (during event)</b>         |        |                                                                                           |            |
| Stewards                                | 2      | Roaming                                                                                   | FOH Team   |
| SIA security                            | 4      | Roaming                                                                                   | FOH Team   |
| Cleaning                                | 5      | Roaming                                                                                   | FOH Team   |
| <b>Phase three (post event)</b>         |        |                                                                                           |            |
| Steward                                 | 2      | Crossing One near Holt Town                                                               | FOH Team   |
| SIA security                            | 2      | Holt Town Tram area - roaming                                                             | FOH Team   |
| Additional Re-deployment From the Arena | 8      | Roaming the walking route – 2 will be positioned next to the Etihad Campus Tram stop gate | FOH Team   |
| SIA security                            | 2      | Etihad Campus end of the walking route - roaming                                          | FOH Team   |

## Responsibilities

### Stewards

There will be 2 stewards based at the crossroads on the corner of Frost Street and Merrill Street. Their primary role and responsibilities will be ensuring fans access the walking route safely and on egress make their way to their next destination safely. They will be welcoming, provide fans with venue information and enhance their experience.

### SIA Security

There will be 2 teams of 2, based at the Holt Town Metrolink Tram Stop and walking the final third of the walking route between the viaduct on New Viaduct Street and the Etihad Campus.

They will be welcoming and engaging to all fans arriving and leaving via walking route and promote the safe and respectful use of the walking route.

The 2 SIA Security based at Holt Town Metrolink Tram Stop will engage with fans to ensure that any fans arriving and leaving via this stop, are doing so safely and being respectful of our neighbours.

They will ensure fans are crossing tracks safely.

They will report any suspicious behaviour, deal with any potential conflicts or anti-social behaviour on the route.

### Additional Roaming Re-deployment from the Arena

During the ingress and egress, there will be additional resources deployed from the arena and they will be positioned along the walking route, ensuring that there is a deployment every 200m. Their responsibilities are the same as the Stewards and SIA Security deployment, focusing on fan safety & security and responsible use of the walking route. One team of 2 will be positioned close to the walking route access gate by the Etihad Campus Tram Stop, so they can close that gate quickly, if needed in an emergency situation.

### Roaming Behavioural Detection Officers

These will be roaming on the campus and on the walking route as part of their event day footprint. They will be on the lookout for any suspicious behaviour displayed by individuals on the walking route and campus.

### Metrolink Tavel Safe Officers

These will be based around Holt Town Metrolink Stop to ensure fans cross the tram tracks safely.

### Cleaning

The cleaning team will do pre-event checks of the walking route ensuring it is ready to accept fans with a focus on safety. They will distribute bins, remove rubbish and complete winter gritting.

During the event they will be ensuring the route is clear of rubbish and the areas are ready for the egress.

Post-event they will remove the waste and bins alongside the planned arena waste management operation.

### Volunteers

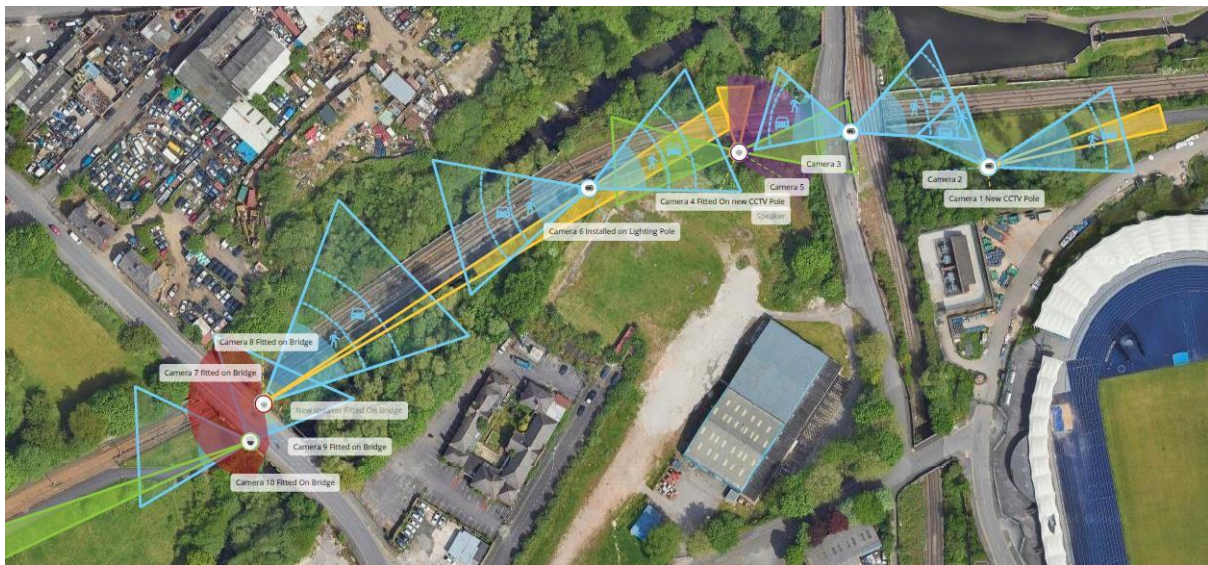
Will be managed by the FOH team. They will be positioned along the walking route from Holt Town to campus and they will be aiding with wayfinding/direction, engaging with fans, taking pictures, answering questions and promoting fan safety along the route. They will operate in pairs for their safety and only during ingress.

### Zone Ex Controller

They will be based in the Event Control Room and will log any radio calls from the teams along the route on 24/7. They will if needed deploy additional resources to the walking route.

They will have access to the CCTV on walking route, but the CCTV will be managed and monitored from the Campus Management Suite.

## CCTV Camera Locations



These cameras will be managed from the Campus Management Suite. The Campus Management Suite operators will be linked into the Event Control Room via radio and will be able to escalate any potential issues if they arise.

## Sustainable Travel

We know fans will travel to the arena in a multitude of different way, but the walking route is a key part of our sustainability goals, and we envision around 2000 or 10% of fans will use this route at the ingress and egress of events. We expect this number to grow in the future as more fans know about it and interact with it.

## Maintenance and Facility Management Information and Planning

The maintenance of the route and the general upkeep between the Cambrian Street bridge and the Etihad Campus will sit with the Campus Management Team. Event specific activities will be managed per venue.

## Asset and Installation Locations and Land Ownership

Made up of large structures with light and sound, murals, paintings and floor treatments, it is the intention that the installations on the CityLink walking route will be maintained by the Campus Management Team on behalf of Sports City Management Company. In the interim, Eastlands Arena Ltd have confirmed responsibility for the cost of the maintenance of the installations.



† CWT\_001 - TRAIL START INSTALLATION



† CWT\_002A - CONTENT WALL



† CWT\_002B - LIGHT ANTENNAS INSTALLATION



† CWT\_004 - AUDIO HIVE TUNNEL



† CWT\_005 - LIGHTING THE WAY



† CWT\_006 - BRIDGE 2 VISUAL DESIGN ARTWORK



† CWT\_007 - HVM BEE

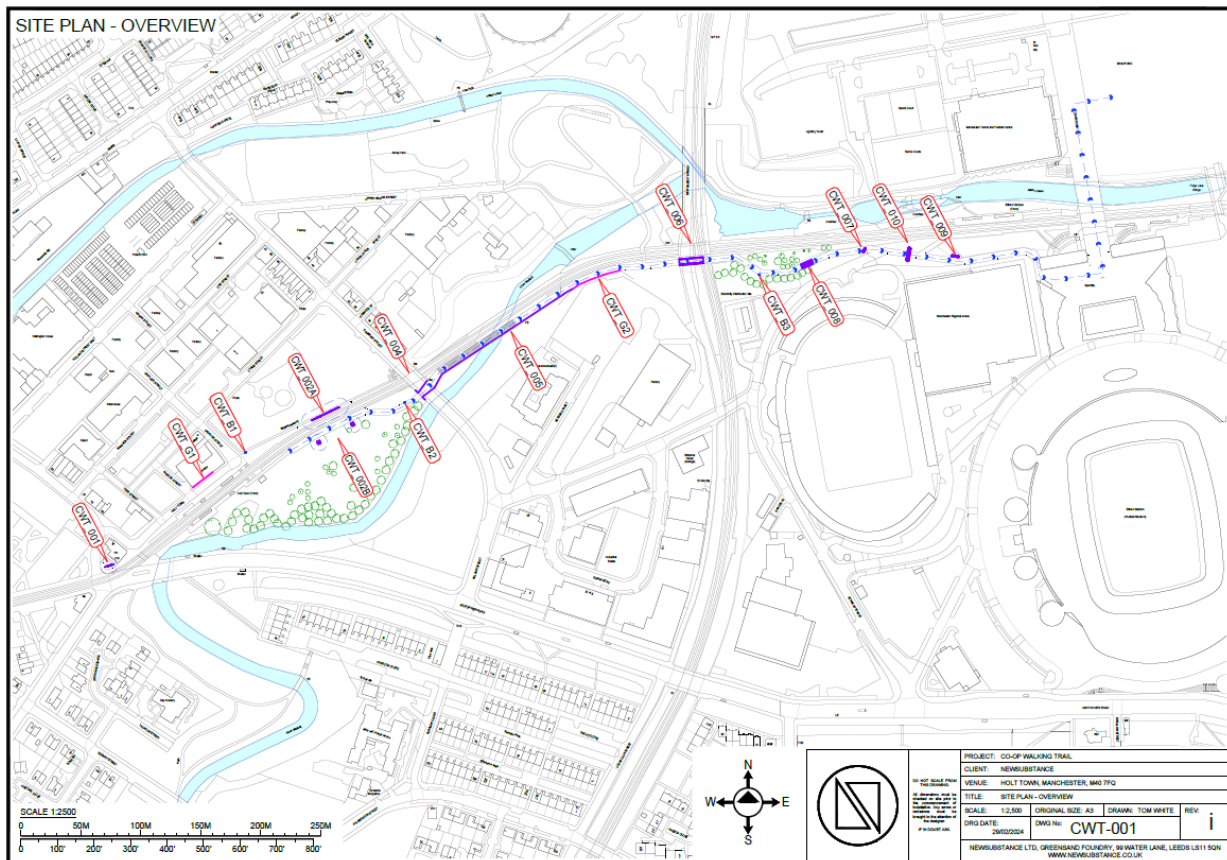


† CWT\_010 - CLIMATE LIGHT ARCH



† CWT\_009 - LARGE M SIGN

## Installation Map



## Annual Maintenance

Installation checks and maintenance along the walking route will encompass a range of tasks aimed at ensuring the safety, functionality, and aesthetic appeal of the infrastructure. These checks and maintenance procedures are crucial components of an annual maintenance arrangement, designed to uphold statutory compliance and regulatory standards.

1. **Structural Integrity Inspection:** Regular inspections will be conducted to assess the structural integrity of the installations. This involves examining for signs of corrosion, degradation, or structural damage that could compromise safety. Any issues identified will be reported to the Campus Management Team and will be addressed promptly to prevent accidents and ensure structural stability.
2. **Surface Condition Assessment:** Surfaces along the walking route, including pathways, pavements, and access ramps, will be inspected for cracks, potholes, or unevenness that could pose trip hazards or impede accessibility. Issues requiring repairs or resurfacing will be reported to the Campus Management Team to be complete as needed to maintain a smooth and safe walking surface for pedestrians.
3. **Lighting and Electrical Checks:** Lighting fixtures along the route, including streetlights, pathway lights, and illuminated signage, will be inspected to ensure proper functionality and visibility. Lamp replacements, wiring repairs, and fixture cleaning will be carried out to maintain adequate lighting levels for pedestrian safety, especially during nighttime hours.
4. **Landscape Maintenance:** Vegetation management is essential to prevent overgrowth that may obstruct pathways, signage, or sightlines. Regular trimming, pruning, and weed control measures will be implemented to keep vegetation in check and preserve the aesthetic appeal of the surroundings.
5. **Cleaning and Sanitisation:** Regular cleaning and sanitisation of the installations will be conducted to uphold hygiene standards and enhance the overall cleanliness of the walking route. This includes removal of litter, debris, and graffiti to create a pleasant environment for pedestrians.
6. **Accessibility Compliance:** Accessibility features such as wheelchair ramps, tactile paving, and signage will be inspected to ensure compliance with accessibility regulations and standards. Any deficiencies will be reported to the Campus Management Team, to be addressed promptly in order to facilitate safe and inclusive access for individuals with disabilities.
7. **Environmental Considerations:** Environmental factors such as drainage systems, erosion control measures, and ecological preservation efforts will be monitored to minimise environmental impact and ensure sustainability along the walking route.
8. **Documentation and Reporting:** Comprehensive records will be maintained documenting the results of installation checks, maintenance activities undertaken, and any corrective actions implemented. This documentation serves as a valuable reference for regulatory compliance and future maintenance planning.

By implementing thorough installation checks and maintenance procedures along the walking route, safety standards can be upheld, regulatory compliance ensured, and an inviting and functional environment for pedestrians to enjoy year-round will be created and maintained.

## Cleaning & Landscaping Schedule and Regime

The cleaning of the CityLink Route between the Cambrian Street bridge and the Etihad Campus will be undertaken by the Campus Landscape and Cleaning service provider.

Preparation of the route will begin 3 hours prior to the earliest gate opening time and will cease, no later than midnight. Further cleaning will take place, if required on the following day ensuring that the same practices and timings currently adhered to by the Etihad Campus are followed to minimise disruption to the local staff.

During the ingress of patrons, 3 CleanEvent staff members and 1 CleanEvent Supervisor will be in place from 3 hours pre the earliest gates to 1 hour post the latest gate opening times. The CleanEvent Supervisor will have a radio for communications.

During the egress of patrons, 3 CleanEvent staff members and 1 CleanEvent Supervisor will be in place from 1 hour pre the earliest finish time to 2 hour post the latest finish times. The CleanEvent Supervisor will have a radio for communications

Post cleaning, where possible will be done the same day, as long as this does not impact local residents and is within the current agreed timeframes. Post Cleaning will involve a full litter pick and the removal of bags from the installed litter hoops. In the instance where there is a back to back event, the litter hoops will be re-lined. If there is no event the following day, the bags will be removed from the litter hoops and not replaced until 3 hours prior to the next event.

Waste from the route will be collected via CleanEvents Electric Waste collection vehicle which will only begin collection of waste on the approval of the Zone Ex manager.

### [Asset List](#)

Asset and technical equipment list is within the following pages.

## CWT Technical equipment list

### Lighting equipment

| CWT 001 - Trail Start Installation      |                                                                                                   |     |                                                                        |
|-----------------------------------------|---------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------|
| LIGHTING COMPONENTS                     |                                                                                                   |     |                                                                        |
| Part code                               | Description                                                                                       | QTY | Specific maintenance                                                   |
| VEX-FLEXI-MINILINE-RGB-4508-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 4508mm, 15W/m, IP67, Diffused | 2   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-3708-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 3708mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-3508-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 3508mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-2508-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 2508mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-2308-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 2308mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-2108-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 2108mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-1808-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 1808mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-1608-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 1608mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-1208-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 1208mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-1508-XW-IP67-DIF | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 1508mm, 15W/m, IP67, Diffused | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-908-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 908mm, 15W/m, IP67, Diffused  | 2   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-808-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 808mm, 15W/m, IP67, Diffused  | 5   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-608-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 608mm, 15W/m, IP67, Diffused  | 2   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-508-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 508mm, 15W/m, IP67, Diffused  | 1   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-408-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 408mm, 15W/m, IP67, Diffused  | 5   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-308-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 308mm, 15W/m, IP67, Diffused  | 3   | N/A                                                                    |
| VEX-FLEXI-MINILINE-RGB-208-XW-IP67-DIF  | Vexica Flexi-miniline, Flexible PU encapsulated LED Luminaire, RGB, 208mm, 15W/m, IP67, Diffused  | 1   | N/A                                                                    |
| ENCLOSURE                               |                                                                                                   |     |                                                                        |
| Part code                               | Description                                                                                       | QTY | Specific maintenance                                                   |
| LIN720                                  | 4 Channel DMX Drivers                                                                             | 8   | Visual inspection as part of electrical enclosure + electrical testing |
| HLG-185H-24A                            | HLG-185H-24A Constant Current & Constant Voltage 185W 24V IP65                                    | 8   | Visual inspection as part of electrical enclosure + electrical testing |
| LPC1                                    | Designer Lighting Playback Controller 1 (512 channels DMX/eDMX)                                   | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH                                  | 5-way Ethernet Switch                                                                             | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01                              | Archi Cloud Router                                                                                | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE                               | Enclosure IP67 wired with LPC1, Switch, HLG's Decodes and Modem                                   | 1   | Visual inspection as part of electrical enclosure + electrical testing |

| CWT 002A Content Wall - |                                                                     |     |                                                                        |
|-------------------------|---------------------------------------------------------------------|-----|------------------------------------------------------------------------|
| LIGHTING COMPONENTS     |                                                                     |     |                                                                        |
| Part code               | Description                                                         | QTY | Specific maintenance                                                   |
| 80080058                | VPL1220-20, POI, BL                                                 | 375 | Visual checks / General Cleaning                                       |
| 80080056                | VPL305-20, POI, BL                                                  | 25  | Visual checks / General Cleaning                                       |
| 83062046                | VP Power + Data Joinder                                             | 13  | Inspection as part of Electrical Testing                               |
| 83062046                | VP Power + Data Joinder                                             | 11  | Inspection as part of Electrical Testing                               |
| 83062053                | SGM VP Extension cable, 5m - LEADER                                 | 13  | Inspection as part of Electrical Testing                               |
| 83062053                | SGM VP Extension cable, 5m - LEADER                                 | 11  | Inspection as part of Electrical Testing                               |
| 83060635                | SGM VPL Dual installation bracket                                   | 375 | N/A                                                                    |
| 83060634                | SGM VPL Single installation bracket                                 | 50  | N/A                                                                    |
| 83062056                | VP Connector End cap (10 pcs)                                       | 3   | N/A                                                                    |
| 83062301                | Crimping tool for VP connector                                      | 1   | N/A                                                                    |
| ENCLOSURE               |                                                                     |     |                                                                        |
| Part code               | Description                                                         | QTY | Specific maintenance                                                   |
| VLC+ 500                | Designer Video Lighting Controller Plus 500 (256,000 channels eDMX) | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| NET01                   | Network Switch                                                      | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01              | Archi Cloud Router                                                  | 1   | Visual inspection as part of electrical enclosure + electrical testing |

| CWT 002B - Light Antennas Installations |                                                                                                      |     |                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------|
| LIGHTING COMPONENTS                     |                                                                                                      |     |                                                                        |
| Part code                               | Description                                                                                          | QTY | Specific maintenance                                                   |
| LS9030-12D-840-73-FL-4-A-01-PS-WT-000   | Lumascape Linealux 4ft fixture 4000K DMX Power Sync with 100 Optic white housing                     | 56  | Inspection as part of Electrical Testing + General cleaning            |
| LS6540-01-2D-SL                         | Power Sync™ Data Injector Generation 2                                                               | 2   | Inspection as part of Electrical Testing                               |
| LS6402C-2.5 - PS 010                    | Lumascape 3m Leader cable 2.5mm <sup>2</sup>                                                         | 8   | Inspection as part of Electrical Testing                               |
| GLANDSET                                | Gland set for Powerync Box                                                                           | 2   | Inspection as part of Electrical Testing                               |
| A6172 L300D                             | Deck 230v 110w LED Searchlight, including LED Chip & Driver c.w speed controller PCB for DMX control | 2   | Inspection as part of Electrical Testing + General cleaning            |
| CX5SD1-15-IP                            | 15m Neutrik 5 Pin Nickel XLR Extension In Tour flex Data safe Ultra 1 Pair 1 Black DMX Cable         | 2   | Visual inspection as part of Electrical Enclosure                      |
| ENCLOSURE                               |                                                                                                      |     |                                                                        |
| Part code                               | Description                                                                                          | QTY | Specific maintenance                                                   |
| LPC1                                    | Designer Lighting Playback Controller 1 (512 channels DMX/eDMX)                                      | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH                                  | 5-way Ethernet Switch                                                                                | 2   | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01                              | Archi Cloud Router                                                                                   | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHISIM01                              | Annual Sim Charge                                                                                    | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE                               | Enclosure IP67 wired with LPC1, modem and switch                                                     | 1   | Visual inspection as part of electrical enclosure + electrical testing |

| CWT 004 - Audio Hive Tunnel |                                                                         |     |                                          |
|-----------------------------|-------------------------------------------------------------------------|-----|------------------------------------------|
| LIGHTING COMPONENTS         |                                                                         |     |                                          |
| Part code                   | Description                                                             | QTY | Specific maintenance                     |
| RGBW-MOD                    | Batch 3 Node RGBW LED Module batch of 4080 pcs                          | 1   | N/A                                      |
| PSU67 24W                   | 24w 12v Outdoor Rated Power Supply IP67 Double Insulated Cable (225pcs) | 1   | Inspection as part of Electrical Testing |
| DMXRDM-DEC                  | 16bit DMX/RDM CV DECODE (225pcs)                                        | 1   | N/A                                      |

|                  |                                                                   |            |                                                                        |
|------------------|-------------------------------------------------------------------|------------|------------------------------------------------------------------------|
| ENCLOSURES       | 30W Power Supply (225pcs)                                         | 1          | N/A                                                                    |
| <b>ENCLOSURE</b> |                                                                   |            |                                                                        |
| <b>Part code</b> | <b>Description</b>                                                | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| LPC2             | Designer Lighting Playback Controller 2 (1024 channels DMX/eDMX)  | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| DMX Splitter     | 6 way DMX Splitter                                                | 2          | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH           | 5-way Ethernet Switch                                             | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01       | Archi Cloud Router                                                | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHISIM01       | Annual Sim Charge                                                 | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE        | Enclosure IP67 wired with LPC1, Switch, HDR, Power Sync and Modem | 1          | Visual inspection as part of electrical enclosure + electrical testing |

#### CWT 005 - Lighting the Way:

|                                         |                                                                                              |            |                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------|
| <b>LIGHTING COMPONENTS</b>              |                                                                                              |            |                                                                        |
| <b>Part code</b>                        | <b>Description</b>                                                                           | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| LS9030 - 12D 4BW 73 NM 4 A 01 PS SL 000 | Lumascap Linealux 4ft fixture RGBW DMX Power Sync with 15 degree Optic Silver housing        | 8          | Inspection as part of Electrical Testing + General cleaning            |
| LS6540-01-2D-SL                         | Power Sync™ Data Injector Generation 2                                                       | 4          | Inspection as part of Electrical Testing                               |
| LS6402C-2.5 - PS 010                    | Lumascap 3m Leader cable 2.5mm <sup>2</sup>                                                  | 8          | Inspection as part of Electrical Testing                               |
| GLANDSET                                | Gland set for Powernyc Box                                                                   | 4          | Inspection as part of Electrical Testing                               |
| LS9160 - 80D 4BW 84 ME G 01 PS SL 006   | Lumascap Quadrulux Q6 Flood with medium beam 30 degrees                                      | 2          | Inspection as part of Electrical Testing + General cleaning            |
| LS9160 - 80D 4BW 84 NM G 01 PS SL 006   | Lumascap Quadrulux Q6 Flood with narrow beam 15 degrees                                      | 1          | Inspection as part of Electrical Testing + General cleaning            |
| LS6540-01-2D-SL                         | Power Sync™ Data Injector Generation 2                                                       | 1          | Inspection as part of Electrical Testing                               |
| LS6402C-PS-032                          | 3m leader                                                                                    | 3          | Inspection as part of Electrical Testing                               |
| GLANDSET                                | Gland set for Powernyc Box                                                                   | 1          | Inspection as part of Electrical Testing                               |
| LS9140 - 50D 4BW 84 ME 01 PS SL 006     | Lumascap Quadrulux Q4 RGBW 50w, 30 degree optic                                              | 24         | Inspection as part of Electrical Testing + General cleaning            |
| LS6402C-2.5 - PS 010                    | Lumascap 3m Leader cable 2.5mm <sup>2</sup>                                                  | 24         | Inspection as part of Electrical Testing                               |
| LS6540-01-2D-SL                         | Power Sync™ Data Injector Generation 2                                                       | 2          | Inspection as part of Electrical Testing                               |
| GLANDSET                                | Gland set for Powernyc Box                                                                   | 2          | Inspection as part of Electrical Testing                               |
| COLORDASHBATTENH12XIP                   | COLORdash Batten H12XIP                                                                      | 48         | Inspection as part of Electrical Testing + General cleaning            |
| MUC1-2.5mm                              | 1m Extension cables with True 1 and XLR outdoor connectors                                   | 46         | Inspection as part of Electrical Testing                               |
| MUC10-2.5mm                             | 10m Extension cables with True 1 and XLR outdoor connectors                                  | 2          | Inspection as part of Electrical Testing                               |
| CX5SD1-15-IP                            | 15m Neutrik 5 Pin Nickel XLR Extension In Tour flex Data safe Ultra 1 Pair 1 Black DMX Cable | 1          | Inspection as part of Electrical Testing                               |
| CX5SD1-45-IP                            | 45m Neutrik 5 Pin Nickel XLR Extension In Tour flex Data safe Ultra 1 Pair 1 Black DMX Cable | 1          | Inspection as part of Electrical Testing                               |
| <b>ENCLOSURE</b>                        |                                                                                              |            |                                                                        |
| <b>Part code</b>                        | <b>Description</b>                                                                           | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| LPC1                                    | Designer Lighting Playback Controller 1 (512 channels DMX/eDMX)                              | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH                                  | 5-way Ethernet Switch                                                                        | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| DMX Splitter                            | 6 way DMX Splitter                                                                           | 2          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01                              | Archi Cloud Router                                                                           | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHISIM01                              | Annual Sim Charge                                                                            | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE                               | Enclosure IP67 wired with LPC1, Switch, HDR, Power Sync and Modem                            | 1          | Visual inspection as part of electrical enclosure + electrical testing |

#### CWT 006 - Bridge Visual

|                            |                                                                                                                     |            |                                                                        |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------|
| <b>LIGHTING COMPONENTS</b> |                                                                                                                     |            |                                                                        |
| <b>Part code</b>           | <b>Description</b>                                                                                                  | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| F080-1S-HO-40-8-20-S-X-D   | Eco sense RISE F080 - Single Fixture - High Output - Silver with 20 degree optic, 11W 700 lumens - side cable entry | 12         | Inspection as part of Electrical Testing + General cleaning            |
| F080-FILTER-RED            | RISE F080 - Red                                                                                                     | 4          | N/A                                                                    |
| F080-FILTER-BLUE           | RISE F080 - Blue                                                                                                    | 4          | N/A                                                                    |
| F080-FILTER-GREEN          | RISE F080 - Green                                                                                                   | 4          | N/A                                                                    |
| <b>ENCLOSURE</b>           |                                                                                                                     |            |                                                                        |
| <b>Part code</b>           | <b>Description</b>                                                                                                  | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| HELVAR 454                 | DMX to Mains dimmer                                                                                                 | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| LPC1                       | Designer Lighting Playback Controller 1 (512 channels DMX/eDMX)                                                     | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH                     | 5-way Ethernet Switch                                                                                               | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01                 | Archi Cloud Router                                                                                                  | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHISIM01                 | Annual Sim Charge                                                                                                   | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE                  | Enclosure IP67 wired with LPC1, Switch, HELVAR and Modem                                                            | 1          | Visual inspection as part of electrical enclosure + electrical testing |

#### CWT 010 - Climate Light Arch

|                                       |                                                                                 |            |                                                                        |
|---------------------------------------|---------------------------------------------------------------------------------|------------|------------------------------------------------------------------------|
| <b>LIGHTING COMPONENTS</b>            |                                                                                 |            |                                                                        |
| <b>Part code</b>                      | <b>Description</b>                                                              | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| LS9030-12D-840-73-FL-3-A-01-PS-WT-000 | Lumascap Linealux 3ft fixture 4000K DMX Power Sync with 100 Optic white housing | 50         | Inspection as part of Electrical Testing + General cleaning            |
| LS6540-01-2D-SL                       | Power Sync™ Data Injector Generation 2                                          | 2          | Inspection as part of Electrical Testing                               |
| LS6402C-2.5 - PS 010                  | Lumascap 3m Leader cable 2.5mm <sup>2</sup>                                     | 2          | Inspection as part of Electrical Testing                               |
| <b>ENCLOSURE</b>                      |                                                                                 |            |                                                                        |
| <b>Part code</b>                      | <b>Description</b>                                                              | <b>QTY</b> | <b>Specific maintenance</b>                                            |
| LPC1                                  | Designer Lighting Playback Controller 1 (512 channels DMX/eDMX)                 | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH                                | 5-way Ethernet Switch                                                           | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01                            | Archi Cloud Router                                                              | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHISIM01                            | Annual Sim Charge                                                               | 1          | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE                             | Enclosure IP67 wired with LPC1, Switch, HDR, Power Sync and Modem               | 1          | Visual inspection as part of electrical enclosure + electrical testing |

#### CWT 009 - Large M SightL

|                                                                |                                                                                              |            |                                                             |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------|
| <b>LIGHTING COMPONENTS</b>                                     |                                                                                              |            |                                                             |
| <b>Part code</b>                                               | <b>Description</b>                                                                           | <b>QTY</b> | <b>Specific maintenance</b>                                 |
| [009260] VEX-LUMAERA-19-H-RGB-405-15W-IP67-DIF                 | Vexica Lumaera 19- H profile, RGB, 405mm, 15W/m, IP67, Diffused                              | 4          | Inspection as part of Electrical Testing + General cleaning |
| [014985] VEX-LUMAERA-19-H-RGB-605-15W-IP67-DIF                 | Vexica Lumaera 19- H profile, RGB, 605mm, 15W/m, IP67, Diffused                              | 4          | Inspection as part of Electrical Testing + General cleaning |
| [009262] VEX-LUMAERA-19-H-RGB-905-15W-IP67-DIF                 | Vexica Lumaera 19- H profile, RGB, 905mm, 15W/m, IP67, Diffused                              | 4          | Inspection as part of Electrical Testing + General cleaning |
| [009263] VEX-LUMAERA-19-H-RGB-1105-15W-IP67-DIF                | Vexica Lumaera 19- H profile, RGB, 1105mm, 15W/m, IP67, Diffused                             | 4          | Inspection as part of Electrical Testing + General cleaning |
| [009264] VEX-LUMAERA-19-H-RGB-1305-15W-IP67-DIF                | Vexica Lumaera 19- H profile, RGB, 1305mm, 15W/m, IP67, Diffused                             | 4          | Inspection as part of Electrical Testing + General cleaning |
| [020818] VEX-LUMAERA-19-H-RGB-1505-15W-IP67-DIF                | Vexica Lumaera 19- H profile, RGB, 1505mm, 15W/m, IP67, Diffused                             | 92         | Inspection as part of Electrical Testing + General cleaning |
| [020917] VEX-LUMAERA-19-H-RGB-975-15W-IP67-DIF-MITRE-SPECIALS1 | Vexica Lumaera 19- H profile, RGB, 975mm, 15W/m, IP67, Diffused, 22.5° Mitre at input end (R | 12         | Inspection as part of Electrical Testing + General cleaning |
| [020916] VEX-LUMAERA-19-H-RGB-975-15W-IP67-DIF-MITRE-SPECIALS2 | Vexica Lumaera 19- H profile, RGB, 975mm, 15W/m, IP67, Diffused, 22.5° Mitre at input end (R | 12         | Inspection as part of Electrical Testing + General cleaning |
| [020899] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-1022x87-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-1022x87, 15W/m, IP67, Diffused, 22.5° mit    | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020900] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-824x131-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-824x131, 15W/m, IP67, Diffused, 22.5° mit    | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020901] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-626x78-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-626x78, 15W/m, IP67, Diffused, 22.5° mitr    | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020902] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-428x12-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-428x122, 15W/m, IP67, Diffused, 22.5° mit    | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020903] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-214x191-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-214x191, 15W/m, IP67, Diffused, 22.5° mit    | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020904] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-84x167-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-84x167, 15W/m, IP67, Diffused, 22.5° mitr    | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020905] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-111x111-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-111x111, 15W/m, IP67, Diffused               | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020906] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-148x148-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-148x148, 15W/m, IP67, Diffused               | 2          | Inspection as part of Electrical Testing + General cleaning |
| [020907] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-190x190-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-190x190, 15W/m, IP67, Diffused               | 4          | Inspection as part of Electrical Testing + General cleaning |

|                                                                |                                                                                            |    |                                                             |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------|----|-------------------------------------------------------------|
| [020908] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-131x131-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-131x131, 15W/m, IP67, Diffused             | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020909] VEX-LUMAERA-19-H-RGB-RIGHT-CORNER-137x137-15WIP67-DIF | Vexica Lumaera 19- H profile, RGB, RIGHT-CORNER-137x137, 15W/m,                            | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020910] VEX-LUMAERA-19-H-RGB-LEFT-CORNER-1022x77-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, LEFT-CORNER-1022x77, 15W/m, IP67, Diffused, 22.5° mitre | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020911] VEX-LUMAERA-19-H-RGB-LEFT-CORNER-824x131-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, LEFT-CORNER-824x131, 15W/m, IP67, Diffused, 22.5° mitre | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020912] VEX-LUMAERA-19-H-RGB-LEFT-CORNER-626x78-15W-IP67-DIF  | Vexica Lumaera 19- H profile, RGB, LEFT-CORNER-626x78, 15W/m, IP67, Diffused, 22.5° mitre  | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020913] VEX-LUMAERA-19-H-RGB-LEFT-CORNER-428x122-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, LEFT-CORNER-428x122, 15W/m, IP67, Diffused, 22.5° mitre | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020914] VEX-LUMAERA-19-H-RGB-LEFT-CORNER-214x191-15W-IP67-DIF | Vexica Lumaera 19- H profile, RGB, LEFT-CORNER-214x191, 15W/m, IP67, Diffused, 22.5° mitre | 2  | Inspection as part of Electrical Testing + General cleaning |
| [020915] VEX-LUMAERA-19-H-RGB-LEFT-CORNER-84x167-15W-IP67-DIF  | Vexica Lumaera 19- H profile, RGB, LEFT-CORNER-84x167, 15W/m, IP67, Diffused, 22.5° mitre  | 2  | Inspection as part of Electrical Testing + General cleaning |
| [008121] VEX-INPUT-TERMINATOR 4 WAY JVPF CABLE ASSEMBLY 2000mm | Vexica Input and Terminator Cable 4 Way JVPF 2000mm                                        | 48 | Inspection as part of Electrical Testing + General cleaning |

| LIGHTING COMPONENTS |                                                                   |     |                                                                        |
|---------------------|-------------------------------------------------------------------|-----|------------------------------------------------------------------------|
| Part code           | Description                                                       | QTY | Specific maintenance                                                   |
| LIN720              | 4 Channel DMX Drivers                                             | 20  | Visual inspection as part of electrical enclosure + electrical testing |
| HLG-240H-24A        | HLG-240H-24A Constant Current & Constant Voltage 240W 24V IP65    | 20  | Visual inspection as part of electrical enclosure + electrical testing |
| LPC1                | Designer Lighting Playback Controller 1 (512 channels DMX/eDMX)   | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| SWITCH              | 5-way Ethernet Switch                                             | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHINET01          | Archi Cloud Router                                                | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ARCHISIM01          | Annual Sim Charge                                                 | 1   | Visual inspection as part of electrical enclosure + electrical testing |
| ENCLOSURE           | Enclosure IP67 wired with LPC1, Switch, HDR, Power Sync and Modem | 2   | Visual inspection as part of electrical enclosure + electrical testing |

| Screens                                                                                                                  |             |     |                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------|-----|------------------------------------------------------------------------|
| DISPLAY COMPONENTS                                                                                                       |             |     |                                                                        |
| Part code                                                                                                                | Description | QTY | Specific maintenance                                                   |
| Sign box 43inch OW43D4 + Plug and Play   WALL MOUNTED OUTDOOR DIGITAL Advertising screen                                 |             | 6   | Inspection as part of Electrical Testing + General cleaning            |
| Sign box 49inch OW49D-T2 + Plug and play   WALL MOUNTED OUTDOOR DIGITAL ADVERTISING SCREEN - TOUCHSCREEN                 |             | 2   | Inspection as part of Electrical Testing + General cleaning            |
| Full Colour LED Display for Indoor/Outdoor Use P10 - 10mm LED pitch - SMD LEDs Case Size: 2000 x 400mm x 90mm - SYN 10 - |             | 2   | Inspection as part of Electrical Testing + General cleaning            |
| Small screen for QR code screens                                                                                         |             | 2   | Inspection as part of Electrical Testing + General cleaning            |
| Media Players & Routers                                                                                                  |             |     |                                                                        |
| DISPLAY COMPONENTS                                                                                                       |             |     |                                                                        |
| Part code                                                                                                                | Description | QTY | Specific maintenance                                                   |
| Bright Sign XT5 media player                                                                                             |             | 8   | Built within screens + electrical testing                              |
| pep-link 5G router - MAX-BR1-PRO-5GN-T-PRM                                                                               |             | 8   | Visual inspection as part of electrical enclosure + electrical testing |

| Sound                                                   |             |     |                                                                        |
|---------------------------------------------------------|-------------|-----|------------------------------------------------------------------------|
| CWT_002b                                                |             |     |                                                                        |
| DISPLAY COMPONENTS                                      |             |     |                                                                        |
| Part code                                               | Description | QTY | Specific maintenance                                                   |
| Martin CDD88-WR 8" Weatherised IP54 Loudspeaker - Black |             | 4   | Inspection as part of Electrical Testing + General cleaning            |
| Martin WB6/8B Wall Bracket - Black                      |             | 4   | NA                                                                     |
| Power soft Mezzo-602A Power Amplifier                   |             | 2   | Visual inspection as part of electrical enclosure + electrical testing |
| Speaker Fixings                                         |             | 2   | N/A                                                                    |
| Speaker Cable & Connectors                              |             | 1   | N/A                                                                    |
| Signal Cable (from Media Players to Amplifiers)         |             | 2   | N/A                                                                    |

| CWT_004                                                 |             |     |                                                                        |
|---------------------------------------------------------|-------------|-----|------------------------------------------------------------------------|
| DISPLAY COMPONENTS                                      |             |     |                                                                        |
| Part code                                               | Description | QTY | Specific maintenance                                                   |
| Martin CDD88-WR 8" Weatherised IP54 Loudspeaker - Black |             | 6   | Inspection as part of Electrical Testing + General cleaning            |
| Martin WB6/8B Wall Bracket - Black                      |             | 6   | NA                                                                     |
| Power soft Mezzo-602AD Power Amplifier with DANTE       |             | 3   | Visual inspection as part of electrical enclosure + electrical testing |
| Speaker Fixings                                         |             | 6   | N/A                                                                    |
| Speaker Cable & Connectors                              |             | 1   | N/A                                                                    |
| SKB 2u Equipment Rack                                   |             | 1   | N/A                                                                    |
| 0.5m CAT5 Cables                                        |             | 3   | N/A                                                                    |