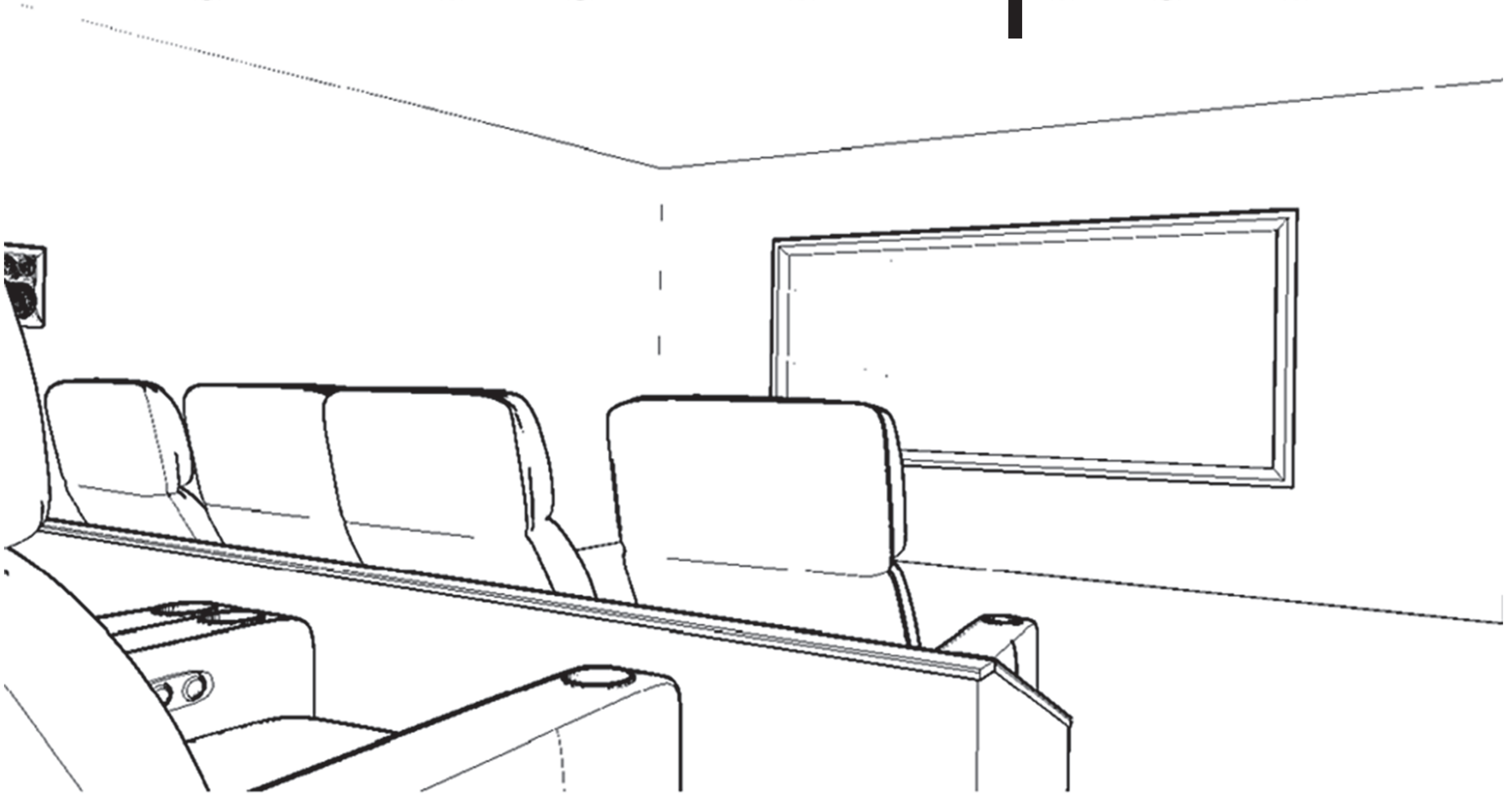
# handover-pack



[ your **brand** ]

[ your tagline ]

CEDIA MEMBER

CRESTRON

HANDOVER PACK, LAST REV: 22/12/2016

[ your **brand** ]
[ your tagline ]

## Introducing Your Brand:

We are a smart home automation company working on prestigious projects throughout the UK**.** Having worked in the audio visual industry for over 15 years, we started the company in 2009 and have achieved prestigious awards for our designs.

## What We Do:

Our award winning team have a wealth of experience in the design, installation and calibration of the very best home automation systems available. Underlying our dedication to providing the very finest automation system possible is our love of technology. The better the system, the more enjoyment will be gained by our clients.

On every project we always remain acutely aware of the complexities of modern technology and how it con impact our lives. Our aim is to harness this technology to make life simpler and more enjoyable. We do this by getting the best out of our products with the help of our great team lovingly designing, testing and installing each element.

## Our Services:

### *Distributed Audio*

*The audio distribution system acts as the backbone of the property-wide entertainment system. It distributes audio from components like Blu ray disc players and audio servers to all the speakers around a property. All of the equipment for this can be discretely installed to minimise the impact on the appearance and design of a property, whilst enhancing the living experience with entertainment everywhere.*

### *Distributed Video*

*The video distribution system delivers high definition video signals to each TV across a property. The systems are designed to be compatible with HD devices and have the ability to deliver video from any device connected to any of the screens in a property independently of what anyone might be watching. As they are digital HDMI based systems they can also carry matching audio signals alongside the video to provide a complete audio visual distribution system to each TV in a property. This allows your favourite satellite channels to be available wherever you choose to watch them in full HD with digital sound.*

### *Control*

*The control system provides a simple interface to various facets of a home, from music and TV entertainment right through to lighting control and intercom functions. Each panel is able to control all of these elements within the room it is situated in or across an entire property. The system can also provide the ability to use portable devices like smart phones and tablet computers to act as fully functional control interfaces giving complete control wherever you are.*

### *Equipment Racking*

*The racking system is where all of the main equipment is housed. It is designed to keep all the equipment neatly stored and maintain a constant healthy operating temperature for all of the systems in a property with the use of correct thermal design. It helps to make our installations more structured and allows for easy maintenance. The racking system also includes cable management, to ensure the cable connections between devices and into a property are kept in a safe and orderly manner.*

### *Home-Cinema*

*The cinema system delivers high definition video and audio for a truly cinematic experience. The video elements of the system are capable of providing high definition viewing for that totally immersive experience. While the audio system delivers reference level cinema surround sound with punch and impact to provide the perfect soundtrack accompaniment to the high definition video experience. Perfect sound and vision will blend together to provide hours of entertainment in your very own private cinema.*

### *Lighting*

*The lighting control system provides dimming and pre-set mood lighting across an entire property. Each room can have a number of lighting scenes set up to combine different luminaires to give dramatic lighting effects or to show off features or centre pieces. As the eye cannot distinguish between 100% on or 90% dimmed the system can be programmed in such a way to provide energy savings by limiting the maximum power supplied to lights. The system is also designed to extend lamp life by using a soft start dim which reduces stress on lamps thus extending their lifespan.*

### *Networking*

*The networking system includes all devices required to provide connectivity to the rest of the systems in a property. It includes where appropriate Wi-Fi and wired LAN devices. This system provides the connectivity backbone for the property-wide systems such as the AV distribution and control systems. The network is designed and implemented to be as robust and reliable as possible within the limitations of the property.*

### *Design & Integration*

*We are able to offer the following design and integration services:*
*Initial design & specification*
*Cable schedules and CAD design*
*Management and overseeing cabling works*
*Second fix installation*
*System programming and commissioning*
*Supply of system user manuals*

### *Calibration*

*We are able to offer all our clients a professional THX / ISF calibration service. Calibration offers more natural colours and finer detail, most importantly, you will know that your television or projector is performing at its very best.*

## Awards:

Our team has won many industry awards over the years including best projects across multiple categories in the CEDIA awards, d-tools design award and Crestron's DigitalMedia award. Giving you the confidence that we can deliver to the most exacting standards.

## How We Can Help You:

We are able to demonstrate a wide range of systems at our showroom, where you can road-test the best equipment and get a personalised design to your particular specifications. We pride ourselves on being able to work on a one-to-one basis with clients, interior designers and architects on projects large or small.

## CEDIA:

Membership of CEDIA the Custom Electronics Design and Installation Association assures you get the best product and quality our industry has to offer. On the following page is our article taken from the Spring 2016 issue of the CEDIA communicates magazine.

# THE KEY TO SUCCESS: DESIGN DOCUMENTATION

**Keith Jones** and **Kelly Ashforth**
Business Partners of London based system integration company discuss the importance of well-designed documents for smart home projects

Let's start with a statement and a question: "Design and documentation is a critical piece of any successful smart building or home technology system. As critical as the central rack and equipment or the client and end user, without which there would be no system at all." The question is simple and probably what most readers already have in mind: Why is design so critical?
The benefits of a well-designed and properly documented system are numerous:

The first and perhaps most obvious we can borrow from Mr. Benjamin Franklin; "Failure to plan is planning to fail".

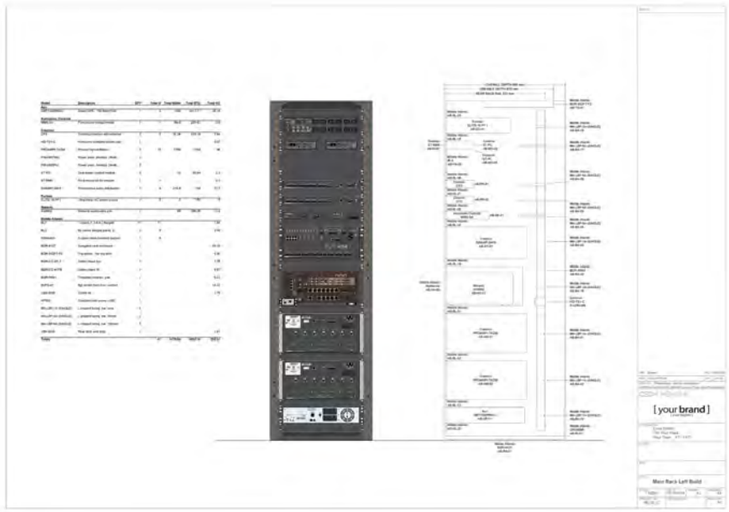
The second is another no brainer: Easier installation. Any system that has been thoroughly planned out and documented by a designer will have had all of the difficult issues of the site and the integration worked out before any wires are run. The installation will be much easier than attempting it without design or planning, allowing all parties involved to have a better understanding of what is required.

This neatly leads on to the third benefit: A well-designed, properly documented system will require less project management. If a project manager is to work efficiently,providing them with a complete set of design drawings to work
with has to be the enabler to this efficiency. Again the difficulties of the site and integration have been ironed out by the design process so there will be no time wasted dealing with these issues on site during installation. Inevitably the installation phases are where the integration company is exposed to greater risk and margin crushing expense to solve issues with technology rather than designing through or around them earlier in the project.

The fourth benefit might seem less obvious but it is none the less important: Professional handover and project closure. The as built design documentation can be used as a physical tool to demonstrate to the client that the integration company has completed their work with due diligence. This makes the handover process much more professional and leads the parties to a natural point of closure, which helps the integrator prove completion and get their final payments in hand.

The fifth benefit follows on from handover: Ease of servicing. Imagine for a moment two installations one which has been well designed and properly documented, project A. And one which has had the least amount of design and drawings possible to get the job done, project B.
Now fast forward a few years and assume that the installation team that installed both projects have moved on to bigger and better things. Which project will
be easier to service? With project A an installer can study the drawings and get familiar with the job before attending site. With project B this can only be done on site making the installer look like they don't know what they are doing which is never a good position to be in.

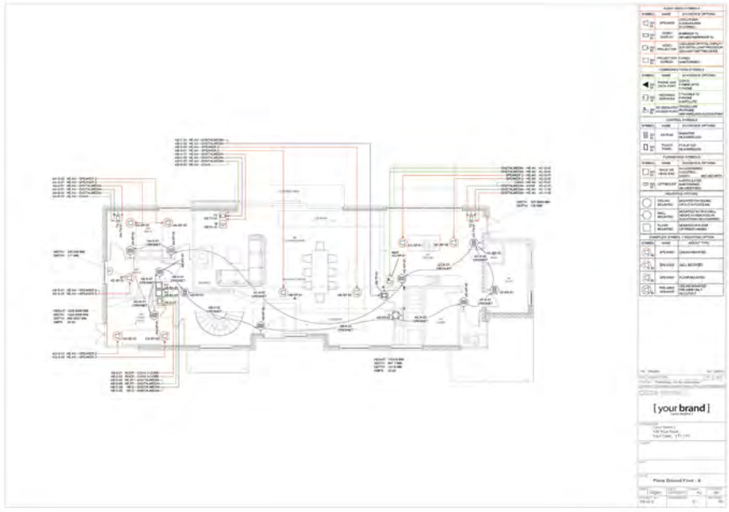
The sixth and final benefit is perhaps less obvious but actually very important to the longevity and success of an integration business: The chance to enter awards to strengthen the brand. Without design and proper documentation awards are nigh on impossible to win.




Businesses with awards and accreditations are more likely to win more jobs and more prestigious work. Business savvy clients (most of them) tend to look for businesses who are proud of their reputation and celebrate their success with awards and accreditations.
Therefore we should consider a well-documented system design as a powerful sales tool.

All of these points neatly leads us into another question: What goes into a well-designed and documented system?
The basic documents will consist of the following: A
complete set of floor plans showing the locations of every piece of equipment going into the job and some mechanism to indicate what cables are required at each point. A set of elevation drawings showing wall mounted equipment and detailing the equipment rack layouts and thermal design. A full set of connectivity schematics showing how each part of the system is interconnected and an IP addressing scheme. These are the basics, other documents might include a functional specification, scope of works and a programming scope.

How are these documents drawn up? This is where education is paramount. The person responsible for designing and documenting systems should be trained in design and have some certification to show this. However nothing counts more than experience in knowing how to assemble systems, knowing the nuances of what works well together and all the elements required to make each system work reliably and perform well.




All of this leads us into the final and perhaps most poignant question here: How should integration companies charge for design?
Firstly there is a myth to be dispelled: "How can I charge for design and not risk losing the job to another integrator who doesn't charge for it?" This one is easy; imagine you are building a house and you have asked two architects to come up with a fee proposal and some ideas. Architect A comes back with a £50,000 fee and some initial ideas backed up by samples of jobs they have successfully completed and a long list of happy clients. Architect B comes back with just a simple statement "We will design your house for free". Which one would you choose? Hopefully Architect A because they have reassured you that they will do a good job and have a sustainable business.

It should be no different for integration companies: A typical project process should be to meet a client, gather their requirements, draw up a ballpark quotation and then ask for a retainer or design fee (the minimum fee here should be around 5% of the quotation) to carry out a detailed design exercise on the clients behalf for a suitable system to meet their requirements. This process along with all the other steps in delivering the job should be presented to the client at the initial meeting so they know straight away what to expect from the integrator and understand from the get go when they will be expected to pay for each phase of the project.

Integration companies should not be wary of charging design fees. They should be actively encouraged to do so and proudly show off their previous design work and how successful their projects are in the process. Design should be used by integration companies as a tool to win more work and gain access to more prestigious projects over time through awards and accreditation.

# CRESTRON PROJECT

[ your **brand** ]
[ your tagline ]

## Brief

The brief for this project was quite specific, as the owners are big fans of Crestron equipment from their other properties and wanted to use as much of this as possible throughout the property. The projects complexity was further increased by the conversion of part of the loft space into a dedicated cinema room.

## Cinema

The cinema became the focus of attention as we worked through various designs for this, relating to how the room should be orientated for the best possible performance. Once this was decided screen size calculations were made and the appropriate projector selected to deliver the correct light output at the surface of the screen allowing for calibration. The client was unsure which speakers would work best so after a visit to our showroom Artcoustic was selected as the preference due to their line array format and high efficiency. The client was keen to have the very latest technology so a Dolby Atmos 7.2.4 speaker system was specified. This meant that we would be unable to use a Crestron cinema processor so we opted for a Marantz 8802 but kept a couple of Procise power amplifiers to stick as closely to the brief as we could. It was during the demonstration at our showroom that the client fell in love with the Kaleidescape system and opted to include this as the main video source for the Cinema, which also led on to the selection of a full masking screen.

## Video

Once the specification was agreed for the cinema we then set about achieving a similar level of performance throughout the property. Crestron's DigitalMedia system was chosen for video distribution to satisfy the client's brief and provide an element of futureproofing. In addition to the cinema projector there are Televisions in the lounge, kitchen and each of the four bedrooms. The client requested that all screens should be of a uniform size and mounted on articulated brackets to optimise viewing angles. As the lounge featured a log burner as the main centre piece it was decided to fit the television in this room in a concealed cabinet. A motorised lift was specified for this room to give easy viewing of the screen at the touch of a button.

## Audio

Crestron's Sonnex system was specified for audio distribution and to be true to the brief we decided to specify Crestron Excite ceiling speakers to keep the Crestron sound intact end to end. The client was keen to have the maximum flexibility when it came to music sources and streaming so an Autonomic five zone audio server was specified to maximise the flexibility of this eight zone system.

## Control

Control of all of this is through iPad's with one for each room with a Television. There is also a Crestron 7" touch panel in the lounge, master bedroom and cinema to give wired backup control in the event of a failure in the iPads. Everything is controlled with a single CP3 and there are a total of six Crestron ST-PC's to provide remote mains cycling of equipment such as Sky boxes.

## Racking

Two full height equipment racks were required to house all of the equipment which meant a little remodelling was required to the cupboard designated for this. Due to the remote nature of the property we decided to include an APC UPS in each rack along with a Furman conditioner to help protect the equipment in the event of issues with the power supply to the house.

## Lighting

Following the client's requirements a Crestron lighting control system was specified to control the lighting throughout the property. Limited space in the cupboard designated for this forced us to keep the number of dimmers down so that they could be housed in a single CAEN enclosure. The client requested a satin nickel finish for all the Crestron switches to match the other sockets and switches used in the property.

## Networking

To keep the networking as secure as possible Cisco Meraki access points were specified sitting on a backbone of Crestron PoE switches and running out through a Cisco modem router. This allows us to monitor the performance and health of the system from off site and contact the client when we see a problem on the network.

## Interface

Another challenge for us was that the client has an elderly wheelchair bound relative who regularly visits. This meant that one of the bedrooms is downstairs and there are a couple of ramps in the main living area to cover the varying levels between the kitchen hall and lounge. This meant that is was paramount to ensure all the items on the ground floor remained accessible to a wheelchair user and also that there were some simple pages within the basic system controls on the touch panels and iPads. This challenge was met with great enthusiasm by our programming team as they had long wanted to create a two phase interface keeping the overall system controls super simple and basic while providing additional controls and settings in a deeper menu that required a code to access.

## Images

The build of this project ran out to just over a year and the clients were very pleased with the end result which you can see in the following pictures.

Carl Icahn Tweets About Apple Letter
BREAKING NEWS
Bloomberg
RABOBANK SAID TO AGREE TO $1B SETTLEMENT OVER LIBOR CLAIMS

Bloomberg
TOM FORD

[ your **brand** ]

[ your tagline ]

CEDIA MEMBER

CRESTRON

SITE PACK, LAST REVISION: 25/01/2017

CABLING INORFMATION

IT IS ESSENTIAL THAT THE FOLLOWING INFORMATION IS READ AND UNDERSTOOD TO ENSURE THE SYSTEMS SUPPLIED AND INSTALLED PERFORM TO THE HIGHEST STANDARD.

1: MAIN CONTRACTOR TO UNDERTAKE THE FOLLOWING:
1.1: ENSURE ALL SUB-CONTRACTORS ARE AWARE OF THE STANDARDS AS SET OUT HERE.
1.2: ENSURE THAT ALL CABLES ARE STORED IN DRY SURROUNDINGS AT TEMPERATURES NOT LOWER THAN 5C.
1.3: NOTIFY WHEN ALL CABLING AND BACK BOXES HAVE BEEN INSTALLED AND CUT OUTS HAVE BEEN MADE FOR SPEAKERS SO TESTING AND CERTIFICATION CAN COMMENCE

2: ELECTRICAL CONTRACTOR TO UNDERTAKE THE FOLLOWING:
2.1: INSTALL ALL ULTRA LOW VOLTAGE ELECTRICAL CABLING TO THE CORRECT POSITIONS AS INDICATED WITHIN THIS SITE PACK.
2.2: ALL CABLING TO BE CLEARLY LABELLED AT BOTH ENDS ONLY WITH THE CABLE ID'S SHOWN WITHIN THIS SITE PACK - FAILURE TO CORRECTLY LABEL THE CABLING MAY RESULT IN ADDITIONAL CHARGES BEING MADE TO THE CLIENT.
2.3: SUPPLY AND FIT ALL BACK BOXES AS DETAILED WITHIN THIS SITE PACK. NOTE THAT HEIGHTS AND POSITIONS OF BACK BOXES ARE INDICATED WITHIN THIS SITE PACK BUT ARE SUBJECT TO CONFIRMATION BY THE ARCHITECT.
2.4: CUT OUT ALL IN-CEILING AND IN-WALL SPEAKER POSITIONS AS INDICATED WITHIN THIS SITE PACK - CUT OUT DETAILS WILL BE PROVIDED UPON REQUEST.
2.5: INSTALL ANY ADDITIONAL MAINS SUPPLIES AS INDICATED WITHIN THIS SITE PACK.
2.6: IN THE CASE OF A LIGHTING CONTROL SYSTEM OR MAINS VOLTAGE RELAYS/CONTROLS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TERMINATIONS OF THE HIGH VOLTAGE SYSTEMS IN LINE WITH CURRENT BUILDING/ELECTRICAL REGULATIONS.
2.7: LEAVE ALL CABLES LOOSELY COILED 1M ABOVE FFL (FINISHED FLOOR LEVEL) TO AVOID CRUSHING, DAMP, AND COLD.

3: WE ASK THAT THE FOLLOWING STANDARDS ARE FOLLOWED TO ENSURE THE PERFORMANCE OF THE STRUCTURED CABLING:
3.1: IN ORDER TO REDUCE ELECTRO-MAGNETIC INTERFERENCE, ALL ULTRA LOW VOLTAGE CABLING IS TO BE RUN AT LEAST 500MM FROM ANY LOW VOLTAGE (MAINS 120-230V) CABLING.
3.2: WHERE ULTRA LOW VOLTAGE CABLING CROSSES LOW VOLTAGE CABLING (MAINS 120-230V), IT SHOULD DO SO AT 90 DEGREES (RIGHT ANGLES).
3.3: IT IS NOT RECOMMENDED THAT ANY ULTRA LOW VOLTAGE CABLING IS BENT AT A RADIUS OF LESS THAN 60MM.
3,4: NO ULTRA LOW VOLTAGE CABLING SHOULD BE EXPOSED TO A PULLING TENSION IN EXCESS OF 10N.
3.5: UNLESS OTHERWISE INDICATED, AT EQUIPMENT POSITIONS/HEAD END, AT LEAST 5M OF SPARE CABLE SHOULD BE LEFT (FROM FLOOR OR CEILING LEVEL).
3.6: UNLESS OTHERWISE INDICATED, PLEASE LEAVE 1M OF SPARE CABLE AT ANY WALL OUTLET/CONTROL POINT.
3.7: AT CEILING SPEAKER LOCATIONS, PLEASE LEAVE 1M OF SPARE CABLE UNLESS OTHERWISE INDICATED - PLEASE LEAVE 2M LOOPS WHERE LOOPS ARE INDICATED.
3.8: IT IS NOT RECOMMENDED THAT ANY OPTICAL FIBRE CABLE IS BENT AT A RADIUS OF LESS THAN 200MM.
3.9: IT IS RECOMMENDED THAT OPTICAL FIBRE CABLE IS ONLY CUT WITH APPROVED FIBRE CUTTING TOOLS.

NO ALTERATIONS ARE TO BE MADE WITHOUT PRIOR CONSULTATION.

EXPLANATION OF CABLE TEXT ELEMENTS:

CABLE ID: AA-S-02 – LOWEST FLOOR (A) TOP LEFT ROOM (A) SPEAKER CABLE (S) ID NUMBER (02)

CABLE TYPE: SPEAKER 2 – 2 CORE SPEAKER CABLE

CABLE DESTINATION: HE: AV – AUDIO/VIDEO HEAD END

EXPLANATION OF SYMBOLS

TWO TEXT ATTRIBUTES ARE USED TO DESCRIBE SYMBOLS AS SHOWN:

| SYMBOL | NAME | DO=DEVICE OPTIONS |
|---|---|---|
| DO / ID | SPEAKER | LCR-LCR BAR<br>S-SUBWOOFER<br>ST-STEREO |

DO = DEVICE OPTIONS - KEY DESCRIPTION OF THE TECHNOLOGY UNIQUE TO EACH SYMBOL, SEE ABOVE FOR EXAMPLES AND MAIN LEGEND FOR DEVICE OPTIONS FOR EACH SYMBOL

ID = ID REFERENCE – ALPHANUMERIC CHARACTERS IDENTIFYING THE SYMBOL. FORMAT XX-YY-00

XX = ROOM ID (FLOORS ARE LABELLED WITH A LETTER STARTING WITH A FOR THE LOWEST FLOOR, ROOMS ARE GIVEN A LETTER STARTING WITH A FOR TOP LEFT ROOM THEN GOING IN ROWS AS IF READING A BOOK, SO AA IS TOP LEFT ROOM ON THE LOWEST FLOOR).

YY = ITEM CODE (SP = SPEAKER, KP = KEYPAD, DT = DIGITAL TELEVISION, ETC.).

00 = UNIQUE ITEM ID NUMBER (01-99)
E.G AA-SP-01 = LOWEST FLOOR/TOP LEFT ROOM-SPEAKER-1

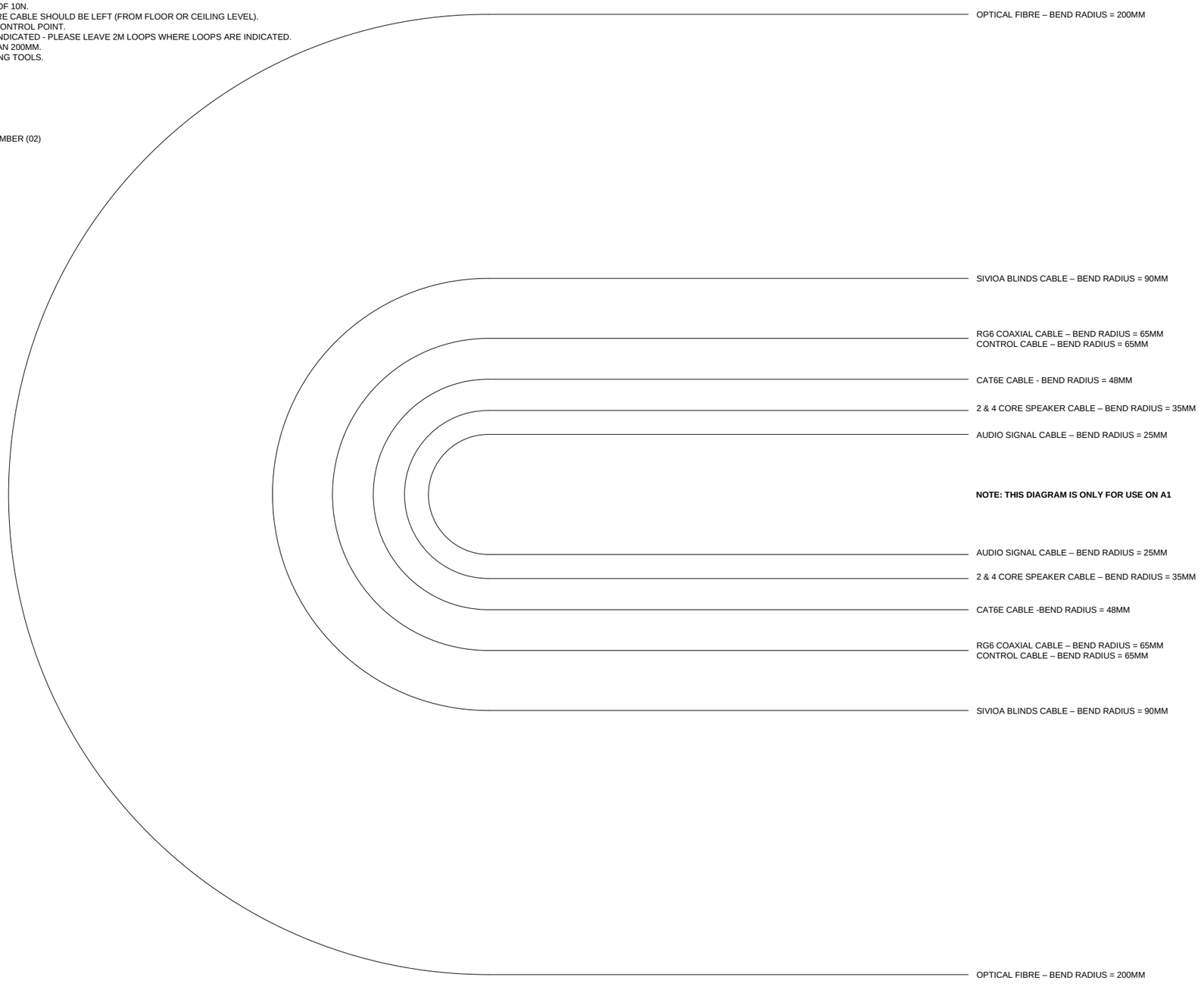
THREE SHAPE OUTLINES ARE USED TO DESCRIBE THE MOUNTING OF EACH DEVICE AS SHOWN:

| MOUNTING OPTIONS | | |
|---|---|---|
| ○ | CEILING MOUNTED | MOUNTED ON CEILING OR CUT INTO CEILING |
| ⬡ | WALL MOUNTED | MOUNTED ON OR IN WALL HEIGHT AS INDICATED IN ELEVATIONS OR AS MARKED |
| □ | FLOOR MOUNTED | MOUNTED IN FLOOR OR FREESTANDING |

| EXAMPLES: SYMBOL + MOUNTING OPTION | | |
|---|---|---|
| SYMBOL | NAME | MOUNT TYPE |
| ID | SPEAKER | CEILING MOUNTED |
| ID | SPEAKER | WALL MOUNTED |
| ID | SPEAKER | FLOOR MOUNTED |

ITEMS THAT WILL NOT BE INSTALLED BUT STILL REQUIRE WIRES RUNNING FOR FUTURE USE OR INSTALLATION ARE INDICATED WITH A BLACK SURROUNDING BOX AS SHOWN BELOW:

| SYMBOL | NAME | DO = DEVICE OPTIONS |
|---|---|---|
| ID | PRE-WIRE SPEAKER | ALL DEVICE OPTIONS AS PER MAIN SYMBOLS |




NOTES:

P0 DRAWN KJ 05/10/16

| REV: | DESCRIPTION: | BY: | DATE: |
|---|---|---|---|

STATUS: Preliminary - not for construction

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CEDIA MEMBER

[ your brand ]
[ your tagline ]

INTEGRATOR:
[ your brand ]
100 Your Road,
Your Town., YT1 1YT.

CLIENT:

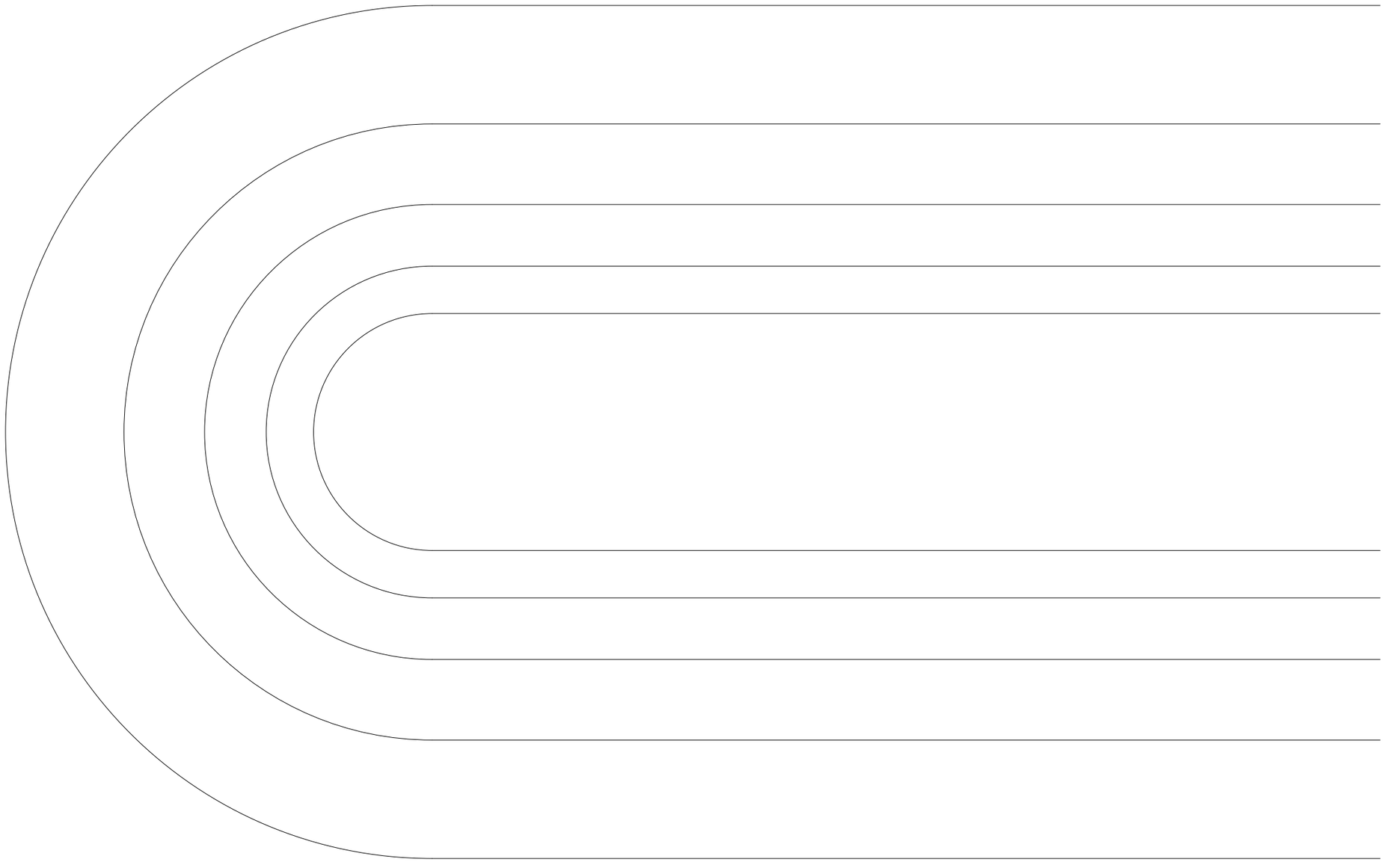
SITE:

TITLE:
**Cabling Information**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:1@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 2/14 | P0 |

BEND RADIUS FOR OPTICAL FIBRE = 200MM
LARGER THAN THIS A3 SHEET SIZE ALLOWS



SIVIOA BLINDS CABLE – BEND RADIUS = 90MM

RG6 COAXIAL CABLE – BEND RADIUS = 65MM
CONTROL CABLE – BEND RADIUS = 65MM

CAT6E CABLE - BEND RADIUS = 48MM

2 & 4 CORE SPEAKER CABLE – BEND RADIUS = 35MM

AUDIO SIGNAL CABLE – BEND RADIUS = 25MM

**NOTE: THIS DIAGRAM IS ONLY FOR USE ON A3**

AUDIO SIGNAL CABLE – BEND RADIUS = 25MM

2 & 4 CORE SPEAKER CABLE – BEND RADIUS = 35MM

CAT6E CABLE -BEND RADIUS = 48MM

RG6 COAXIAL CABLE – BEND RADIUS = 65MM
CONTROL CABLE – BEND RADIUS = 65MM

SIVIOA BLINDS CABLE – BEND RADIUS = 90MM

NOTES:

| REV: | DESCRIPTION: | BY: | DATE: |
|---|---|---|---|
| P0 | DRAWN | KJ | 05/10/16 |

STATUS: Preliminary - not for construction

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CEDIA MEMBER

[ your brand ]
[ your tagline ]

INTEGRATOR:
[ your brand ]
100 Your Road,
Your Town., YT1 1YT.

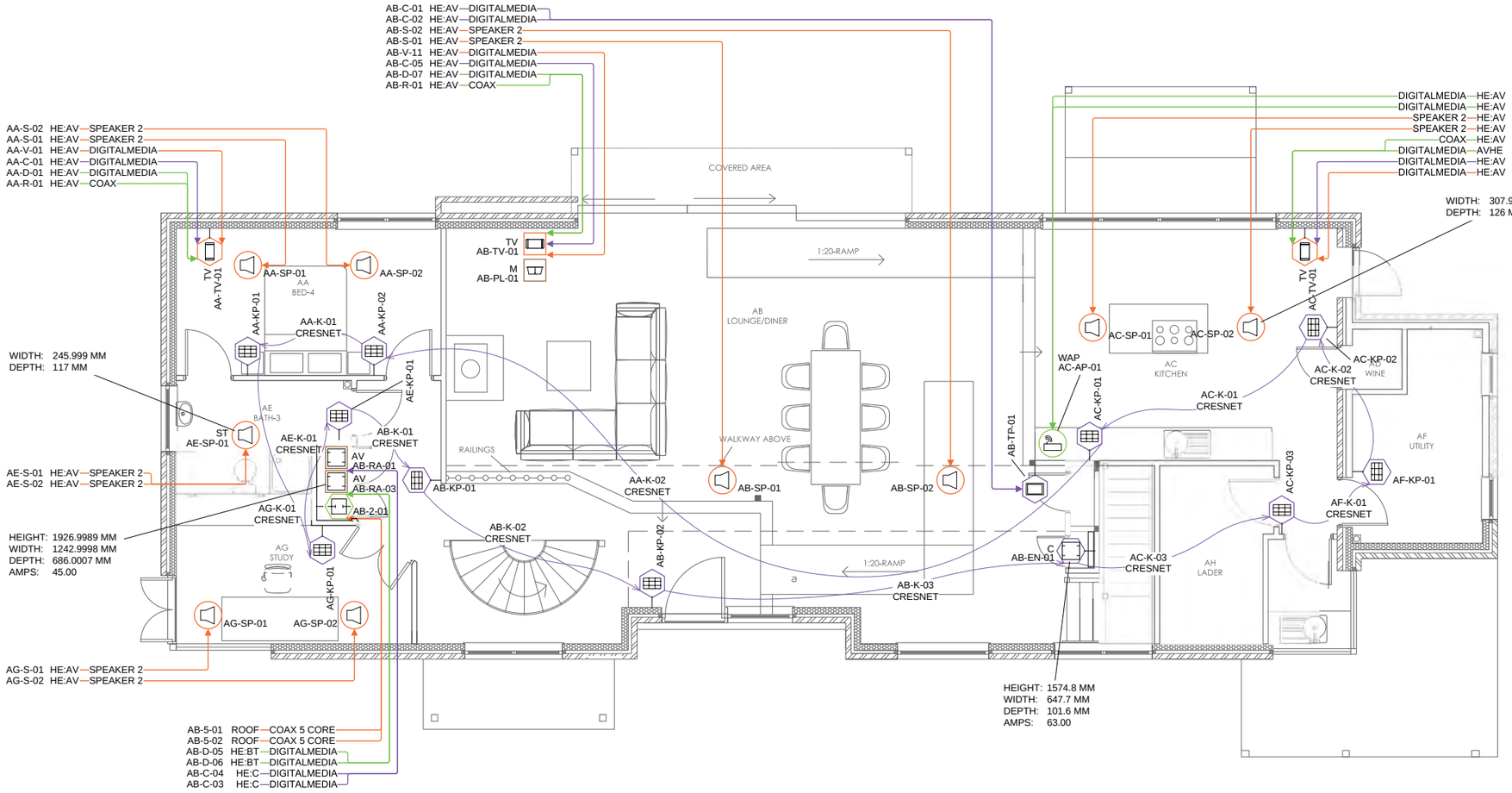
CLIENT:

SITE:

TITLE:
**A3 Bend Radii**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:1@A3 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 3/14 | P0 |




| AUDIO VIDEO SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | SPEAKER | LCR-LCR BAR<br>S-SUBWOOFER<br>ST-STEREO |
| DO ID | VIDEO DISPLAY | M-MIRROR TV<br>WP-WEATHERPROOF TV |
| DO ID | VIDEO PROJECTOR | LCD-LIQUID CRYSTAL DISPLAY<br>DLP-DIGITAL LIGHT PROCESOR<br>LED-LIGHT EMITTING DIODE |
| DO ID | PROJECTION SCREEN | F-FIXED<br>M-MOTORISED |

| COMMUNICATIONS SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | PHONE AND DATA PORT | D-DATA<br>F-FIBRE OPTIC<br>P-PHONE |
| DO ID | INCOMING SERVICES | CTV-CABLE TV<br>P-PHONE<br>S-SATELLITE |
| DO ID | RF REPEATER ACCESS POINT | CR-CELLUAR<br>PR-PHONE<br>WAP-WIRELESS ACCESS POINT |

| CONTROL SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | KEYPAD | M-MASTER<br>WLS-WIRELESS |
| DO ID | TOUCH PANEL | FT-FLIP TOP<br>WLS-WIRELESS |

| FURNISHINGS SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | RACK OR HEAD END | AV-AUDIO/VIDEO<br>C-CONTROL<br>D-DATA SEC-SECURITY |
| DO ID | LIFT/MOUNT | A-ARTICULATED<br>M-MOTORISED<br>UB-UNDER BED |

| MOUNTING OPTIONS | | |
|---|---|---|
| | CEILING MOUNTED | MOUNTED ON CEILING<br>OR CUT INTO CEILING |
| | WALL MOUNTED | MOUNTED ON OR IN WALL<br>HEIGHT AS INDICATED IN<br>ELEVATIONS OR AS MARKED |
| | FLOOR MOUNTED | MOUNTED IN FLOOR<br>OR FREESTANDING |

| EXAMPLES: SYMBOL + MOUNTING OPTION | | |
|---|---|---|
| SYMBOL | NAME | MOUNT TYPE |
| ID | SPEAKER | CEILING MOUNTED |
| ID | SPEAKER | WALL MOUNTED |
| ID | SPEAKER | FLOOR MOUNTED |
| ID | PRE-WIRE SPEAKER | CEILING MOUNTED<br>PRE-WIRE ONLY<br>NO CUTOUT |

P0 DRAWN KJ 05/10/16

REV: DESCRIPTION: BY: DATE:

STATUS: Preliminary - not for construction

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CEDIA MEMBER

[ your **brand** ]
[ your tagline ]

INTEGRATOR:
[ your brand ]
100 Your Road,
Your Town., YT1 1YT.

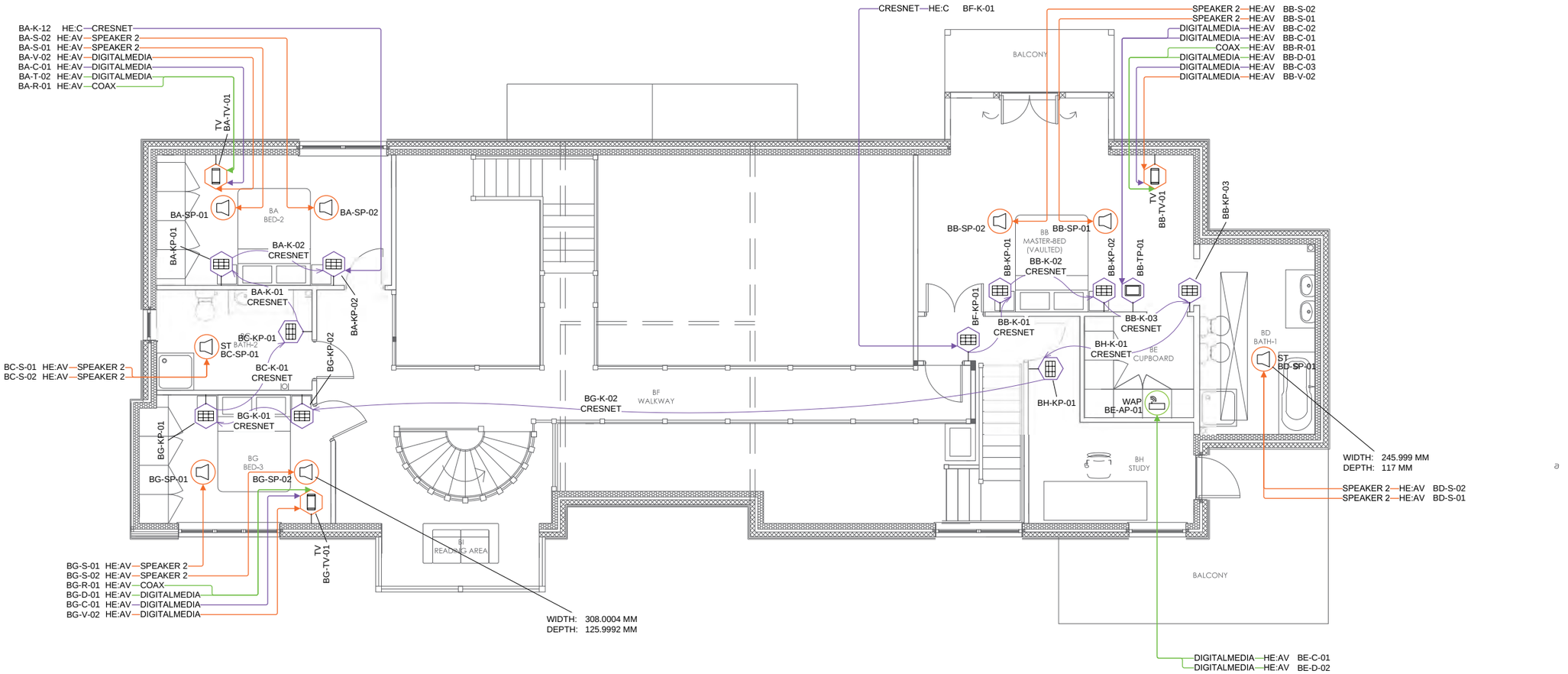
CLIENT:

SITE:

TITLE:
**Plans Ground Floor - A**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:50@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 4/14 | P0 |




| AUDIO VIDEO SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | SPEAKER | LCR-LCR BAR<br>S-SUBWOOFER<br>ST-STEREO |
| DO ID | VIDEO DISPLAY | M-MIRROR TV<br>WP-WEATHERPROOF TV |
| DO ID | VIDEO PROJECTOR | LCD-LIQUID CRYSTAL DISPLAY<br>DLP-DIGITAL LIGHT PROCESOR<br>LED-LIGHT EMITTING DIODE |
| DO ID | PROJECTION SCREEN | F-FIXED<br>M-MOTORISED |

| COMMUNICATIONS SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | PHONE AND DATA PORT | D-DATA<br>F-FIBRE OPTIC<br>P-PHONE |
| DO ID | INCOMING SERVICES | CTV-CABLE TV<br>P-PHONE<br>S-SATELLITE |
| DO ID | RF REPEATER ACCESS POINT | CR-CELLUAR<br>PR-PHONE<br>WAP-WIRELESS ACCESS POINT |

| CONTROL SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | KEYPAD | M-MASTER<br>WLS-WIRELESS |
| DO ID | TOUCH PANEL | FT-FLIP TOP<br>WLS-WIRELESS |

| FURNISHINGS SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | RACK OR HEAD END | AV-AUDIO/VIDEO<br>C-CONTROL<br>D-DATA SEC-SECURITY |
| DO ID | LIFT/MOUNT | A-ARTICULATED<br>M-MOTORISED<br>UB-UNDER BED |

| MOUNTING OPTIONS | | |
|---|---|---|
| | CEILING MOUNTED | MOUNTED ON CEILING OR CUT INTO CEILING |
| | WALL MOUNTED | MOUNTED ON OR IN WALL HEIGHT AS INDICATED IN ELEVATIONS OR AS MARKED |
| | FLOOR MOUNTED | MOUNTED IN FLOOR OR FREESTANDING |

| EXAMPLES: SYMBOL + MOUNTING OPTION | | |
|---|---|---|
| SYMBOL | NAME | MOUNT TYPE |
| ID | SPEAKER | CEILING MOUNTED |
| ID | SPEAKER | WALL MOUNTED |
| ID | SPEAKER | FLOOR MOUNTED |
| ID | PRE-WIRE SPEAKER | CEILING MOUNTED<br>PRE-WIRE ONLY<br>NO CUTOUT |

P0 DRAWN KJ 05/10/16

| REV: | DESCRIPTION: | BY: | DATE: |
|---|---|---|---|

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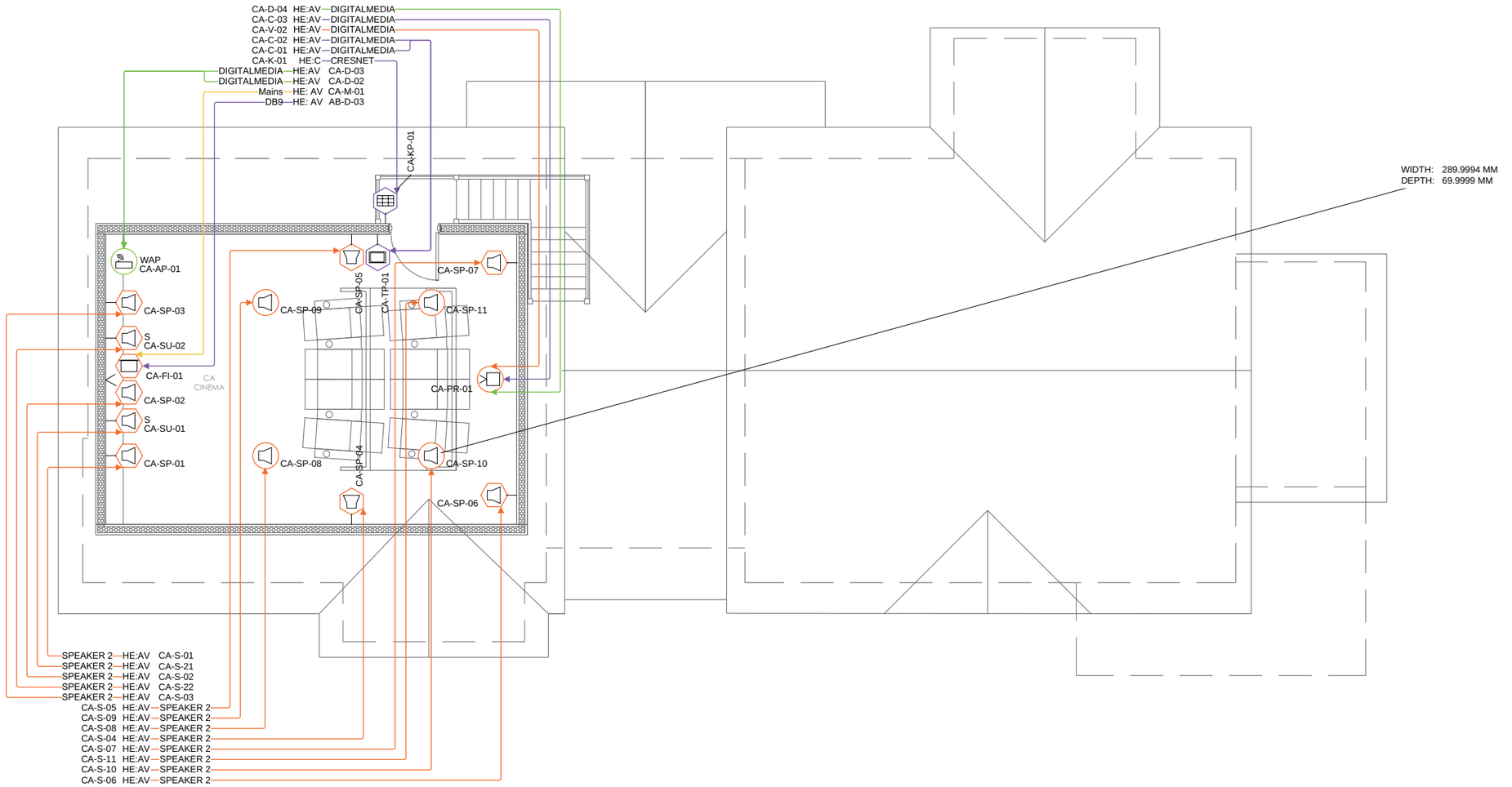
CLIENT:

SITE:

TITLE:
**Plans First Floor - B**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:50@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 5/14 | P0 |




| AUDIO VIDEO SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | SPEAKER | LCR-LCR BAR<br>S-SUBWOOFER<br>ST-STEREO |
| DO ID | VIDEO DISPLAY | M-MIRROR TV<br>WP-WEATHERPROOF TV |
| DO ID | VIDEO PROJECTOR | LCD-LIQUID CRYSTAL DISPLAY<br>DLP-DIGITAL LIGHT PROCESOR<br>LED-LIGHT EMITTING DIODE |
| DO ID | PROJECTION SCREEN | F-FIXED<br>M-MOTORISED |

| COMMUNICATIONS SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | PHONE AND DATA PORT | D-DATA<br>F-FIBRE OPTIC<br>P-PHONE |
| DO ID | INCOMING SERVICES | CTV-CABLE TV<br>P-PHONE<br>S-SATELLITE |
| DO ID | RF REPEATER ACCESS POINT | CR-CELLUAR<br>PR-PHONE<br>WAP-WIRELESS ACCESS POINT |

| CONTROL SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | KEYPAD | M-MASTER<br>WLS-WIRELESS |
| DO ID | TOUCH PANEL | FT-FLIP TOP<br>WLS-WIRELESS |

| FURNISHINGS SYMBOLS | | |
|---|---|---|
| SYMBOL | NAME | DO=DEVICE OPTIONS |
| DO ID | RACK OR HEAD END | AV-AUDIO/VIDEO<br>C-CONTROL<br>D-DATA SEC-SECURITY |
| DO ID | LIFT/MOUNT | A-ARTICULATED<br>M-MOTORISED<br>UB-UNDER BED |

| MOUNTING OPTIONS | | |
|---|---|---|
| | CEILING MOUNTED | MOUNTED ON CEILING<br>OR CUT INTO CEILING |
| | WALL MOUNTED | MOUNTED ON OR IN WALL<br>HEIGHT AS INDICATED IN<br>ELEVATIONS OR AS MARKED |
| | FLOOR MOUNTED | MOUNTED IN FLOOR<br>OR FREESTANDING |

| EXAMPLES: SYMBOL + MOUNTING OPTION | | |
|---|---|---|
| SYMBOL | NAME | MOUNT TYPE |
| ID | SPEAKER | CEILING MOUNTED |
| ID | SPEAKER | WALL MOUNTED |
| ID | SPEAKER | FLOOR MOUNTED |
| ID | PRE-WIRE SPEAKER | CEILING MOUNTED<br>PRE-WIRE ONLY<br>NO CUTOUT |

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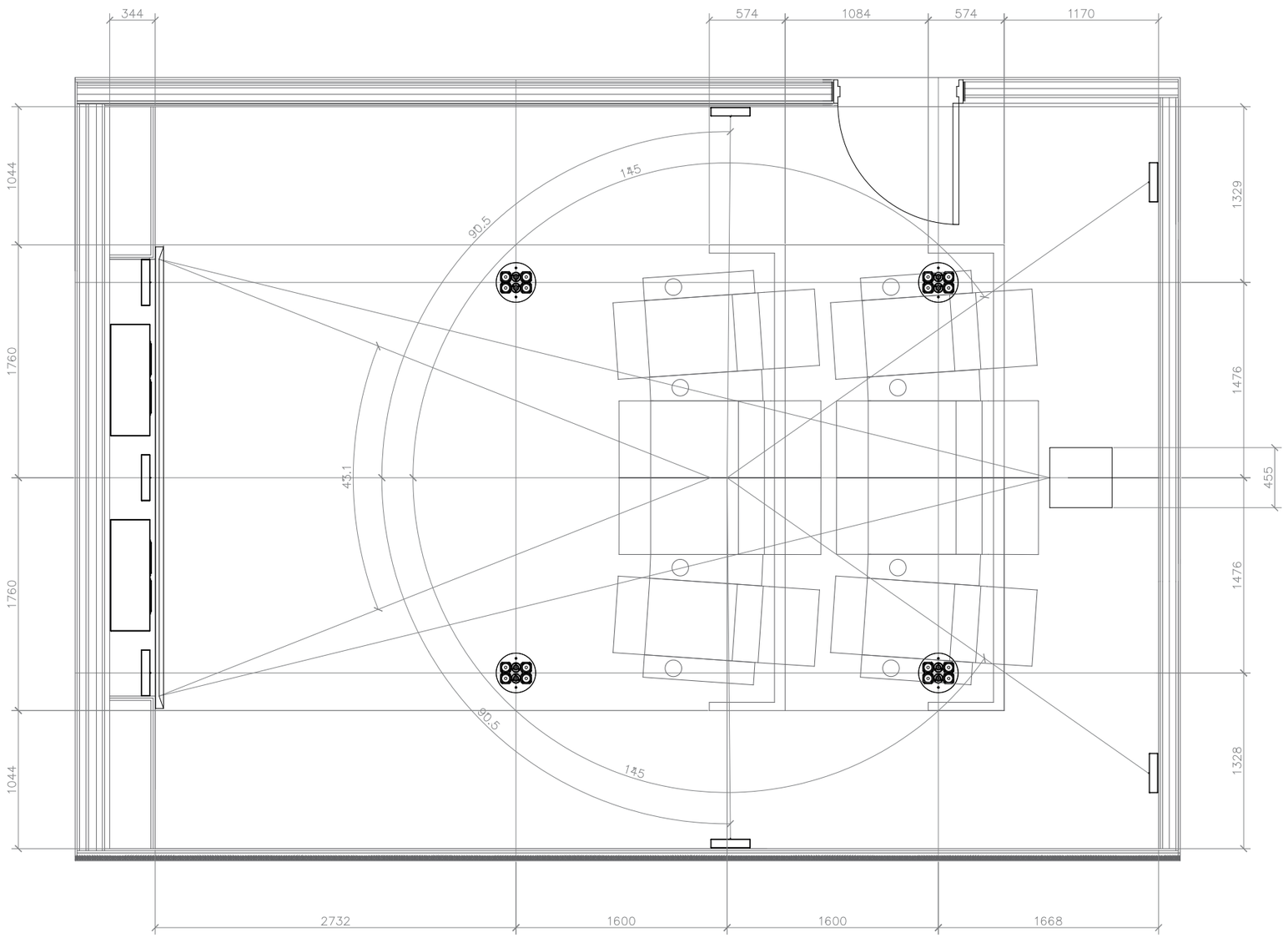
CLIENT:

SITE:

TITLE:
**Plans Loft - C**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:50@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 6/14 | P0 |




ROOM DIMENSIONS L 7600 X W 5600 X H 2800 APPROX.

NOTES:

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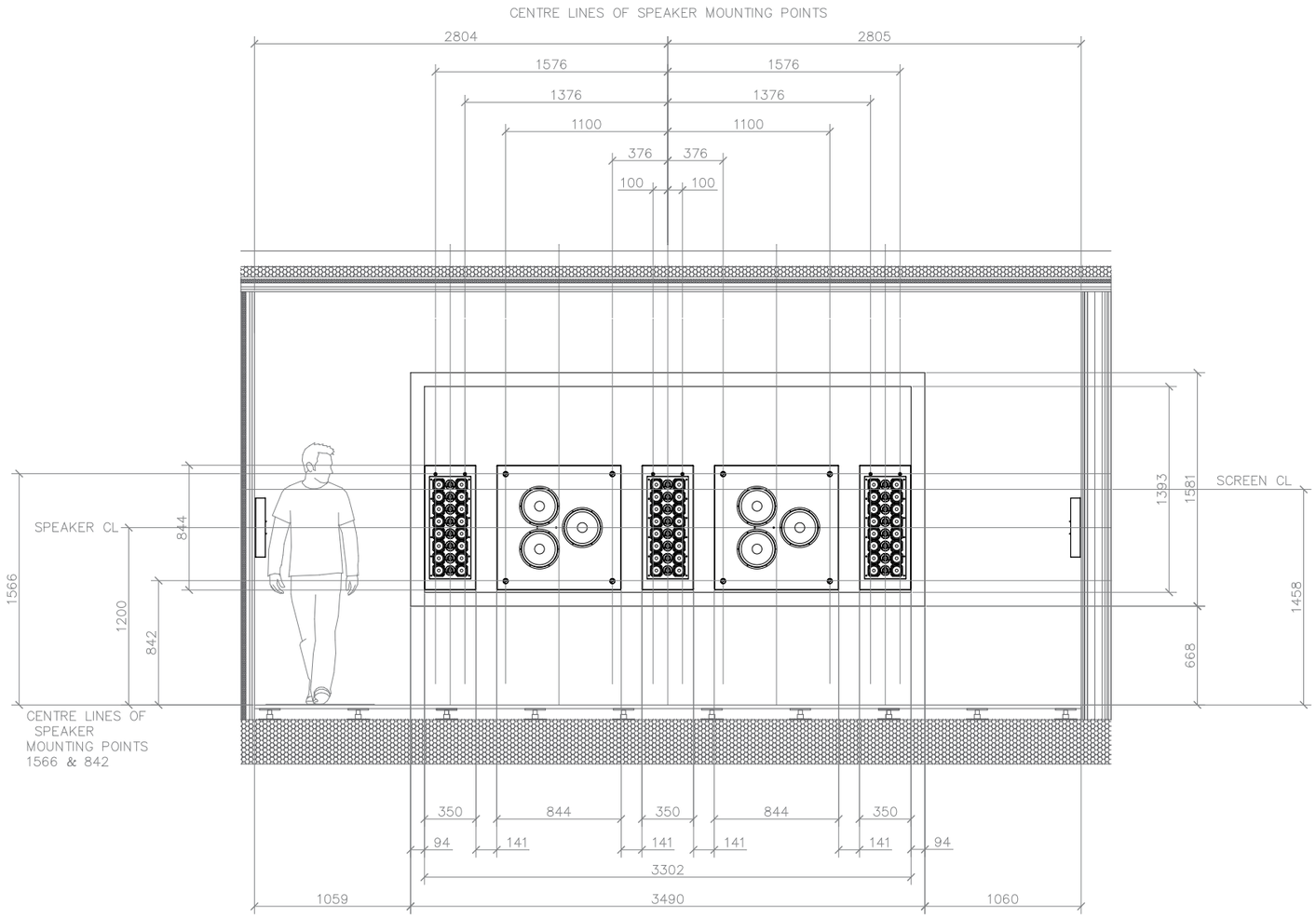
TITLE:
**Plans Cinema**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:20@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 7/14 | P0 |

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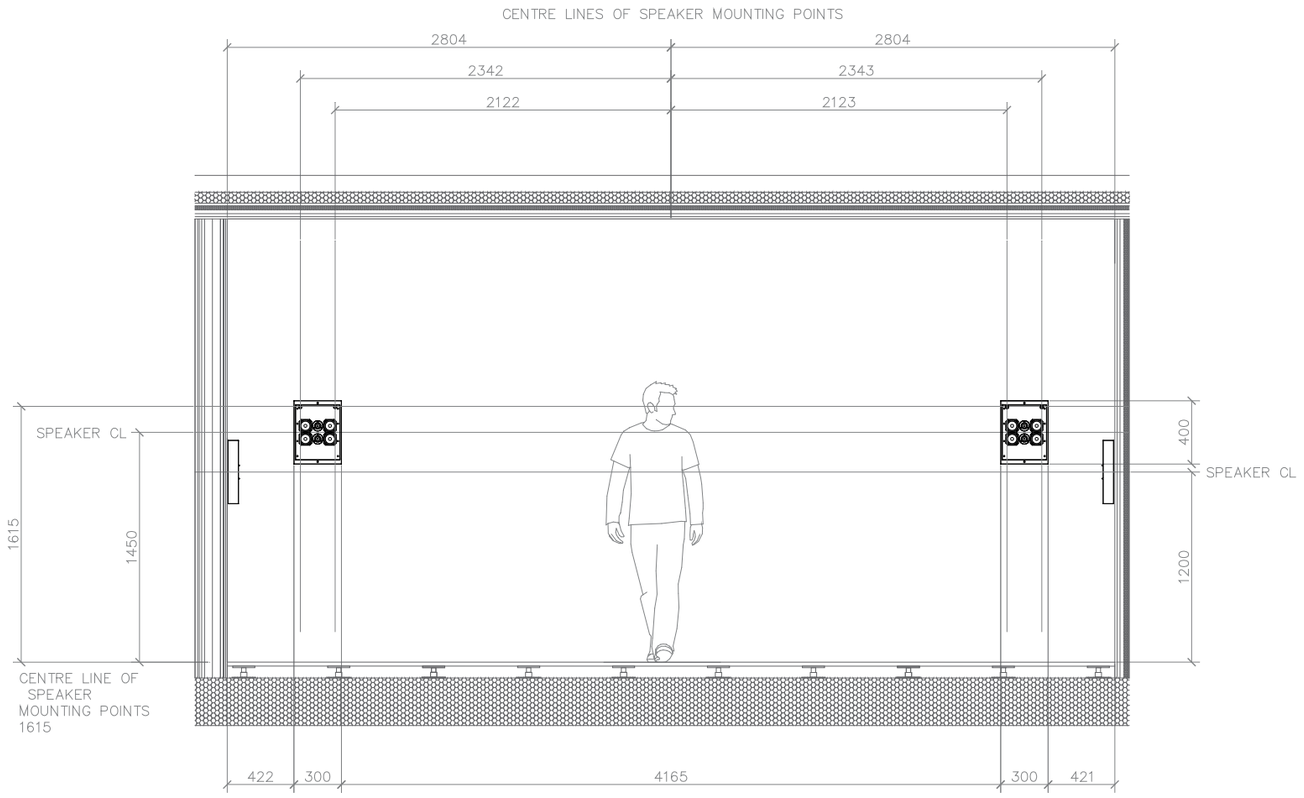
TITLE:
**Elevations Cinema Screen Wall**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:20@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 8/14 | P0 |

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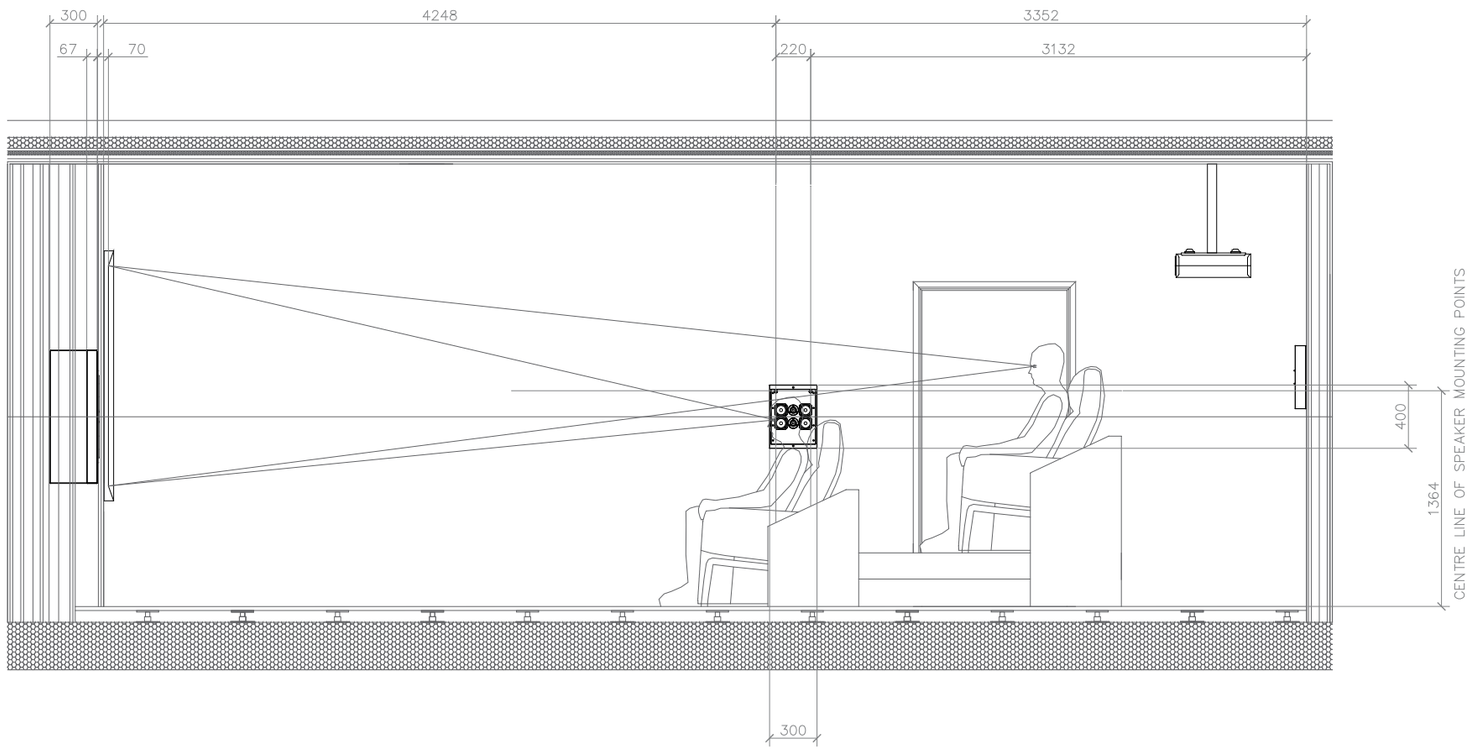
SITE:

TITLE:
**Elevations Cinema Rear Wall**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:20@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 9/14 | P0 |

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TITLE:
**Elevations Cinema Right Wall**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:20@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
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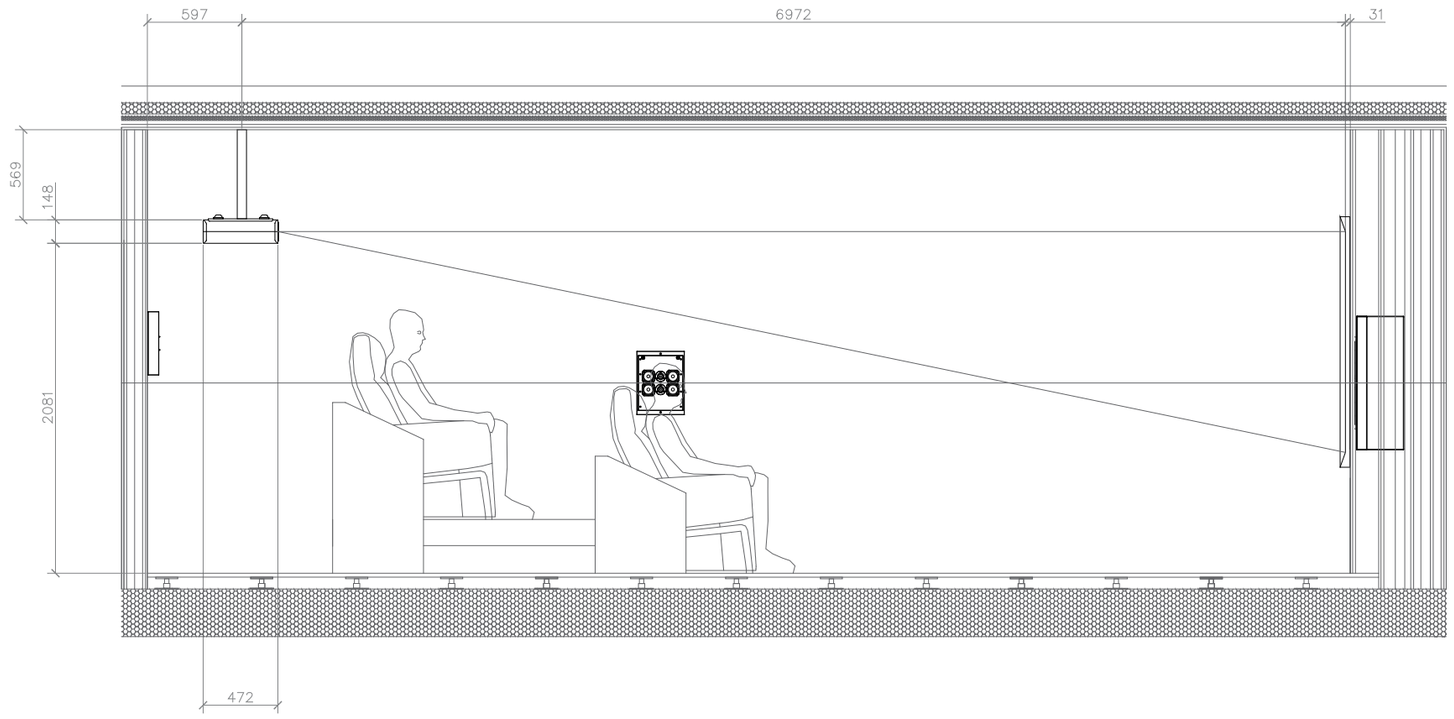
| YB-02-C | 10/14 | P0 |

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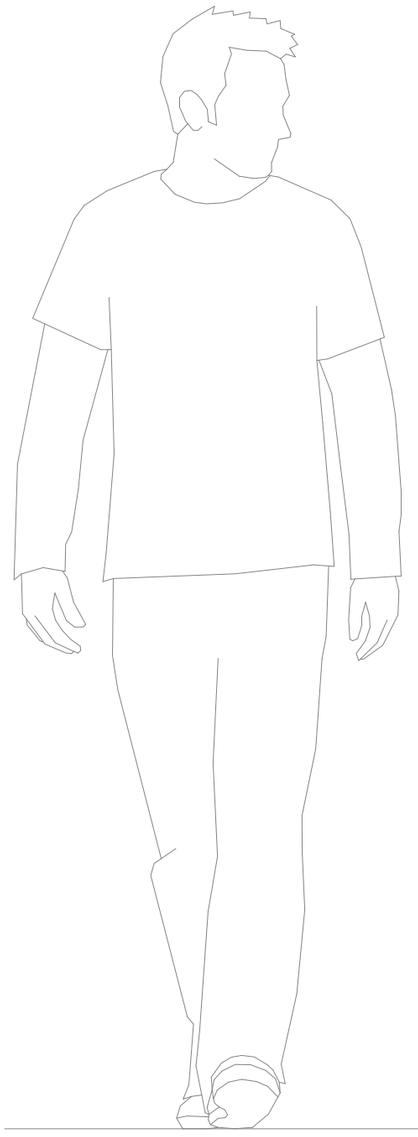
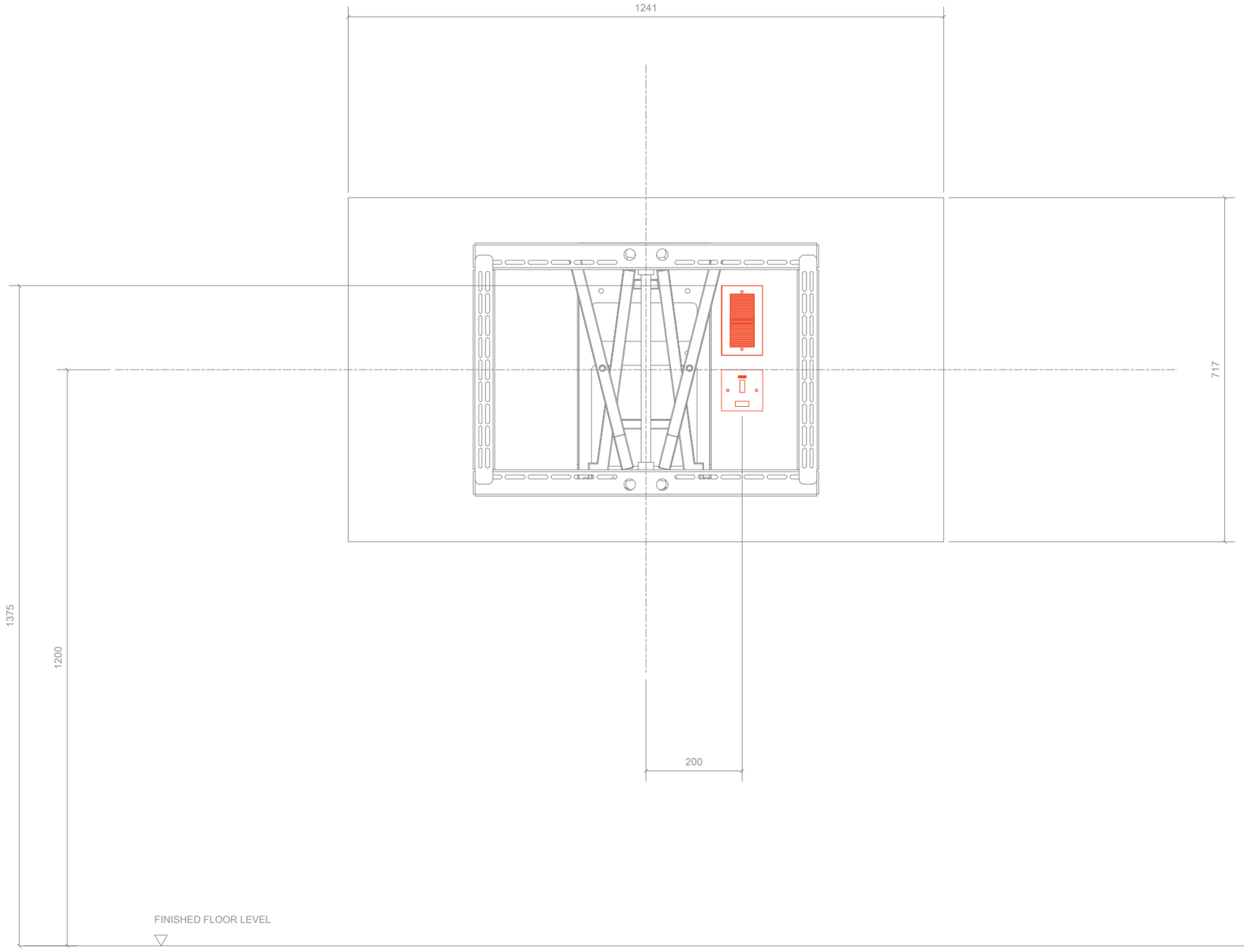
TITLE:
**Elevations Cinema Left Wall**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:20@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 11/14 | P0 |

SAMSUNG UE55H6400
55" SCREEN ON PS42 BRACKET



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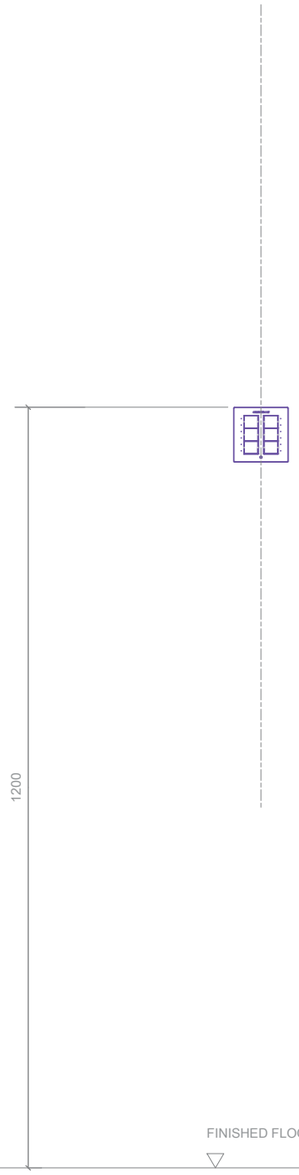
SITE:

TITLE: **Elevations TV Kitchen, Master Bed, Beds 2, 3 & 4**

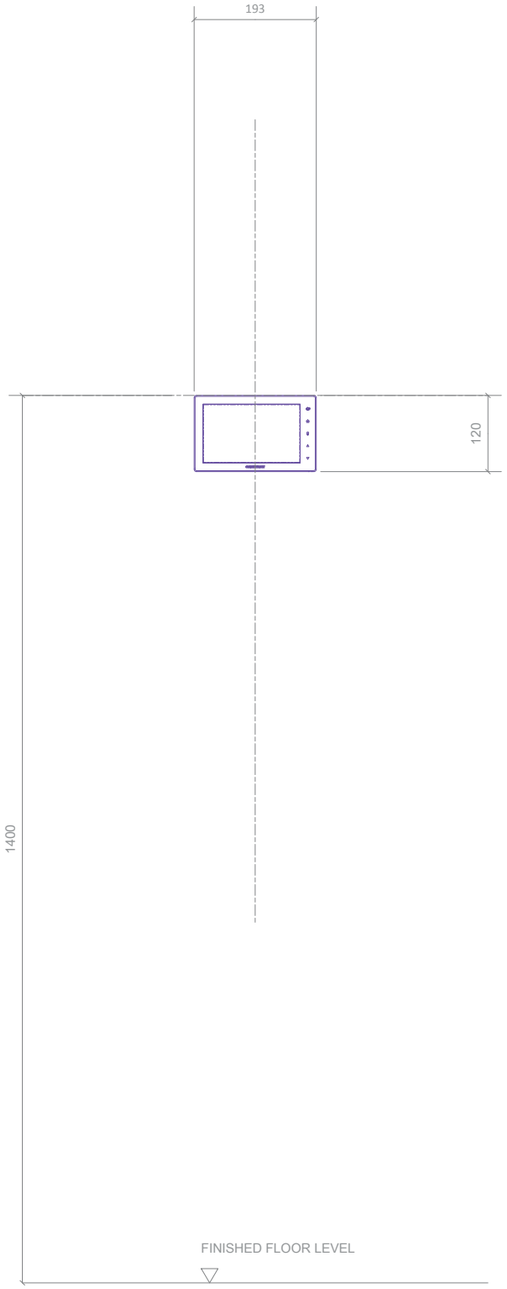
| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 12/14 | P0 |

LIGHT CONTROLS CRESTRON C2NI-CB-B-T
BACK BOX 47MM DEEP SINGLE GANG UK




TOUCH PANEL TSW750
BACK BOX: CUSTOM

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|---|---|---|---|
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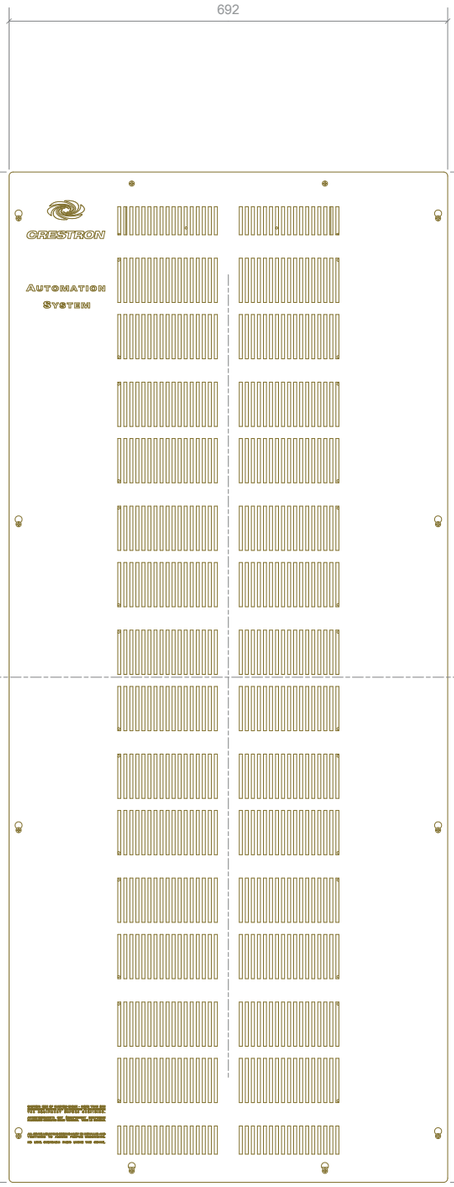
SITE:

TITLE: **Elevations Touch Panel, Light Switches**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 13/14 | P0 |

CRESTRON CAEN-7X2
LIGHTING DIMMER PANEL




692

1594

1997

1200

403

FINISHED FLOOR LEVEL

NOTES:

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SITE:

TITLE:
**Elevations Dimming Panel**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB-02-C | 14/14 | P0 |

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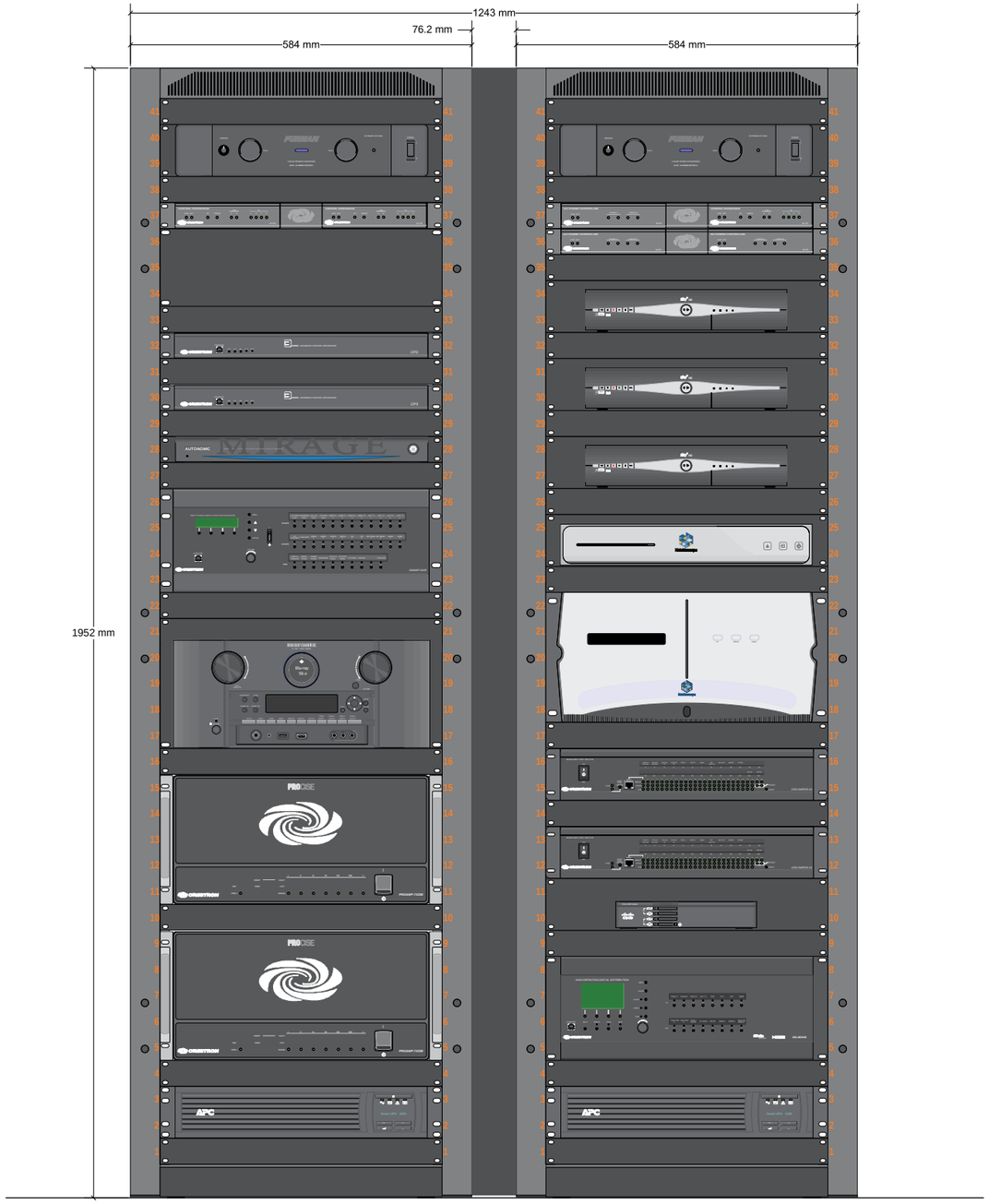
CRESTRON

ENGINEERING PACK, LAST REV: 05/10/2016




NOTES:

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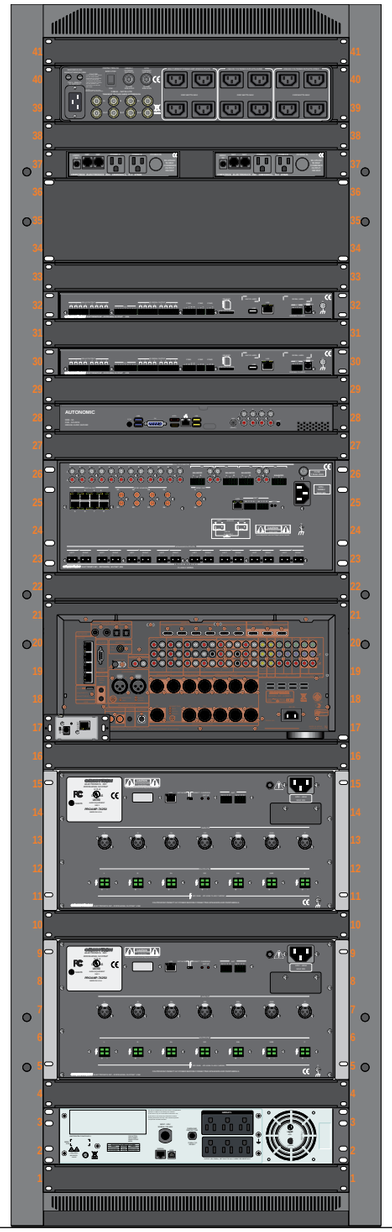
SITE:

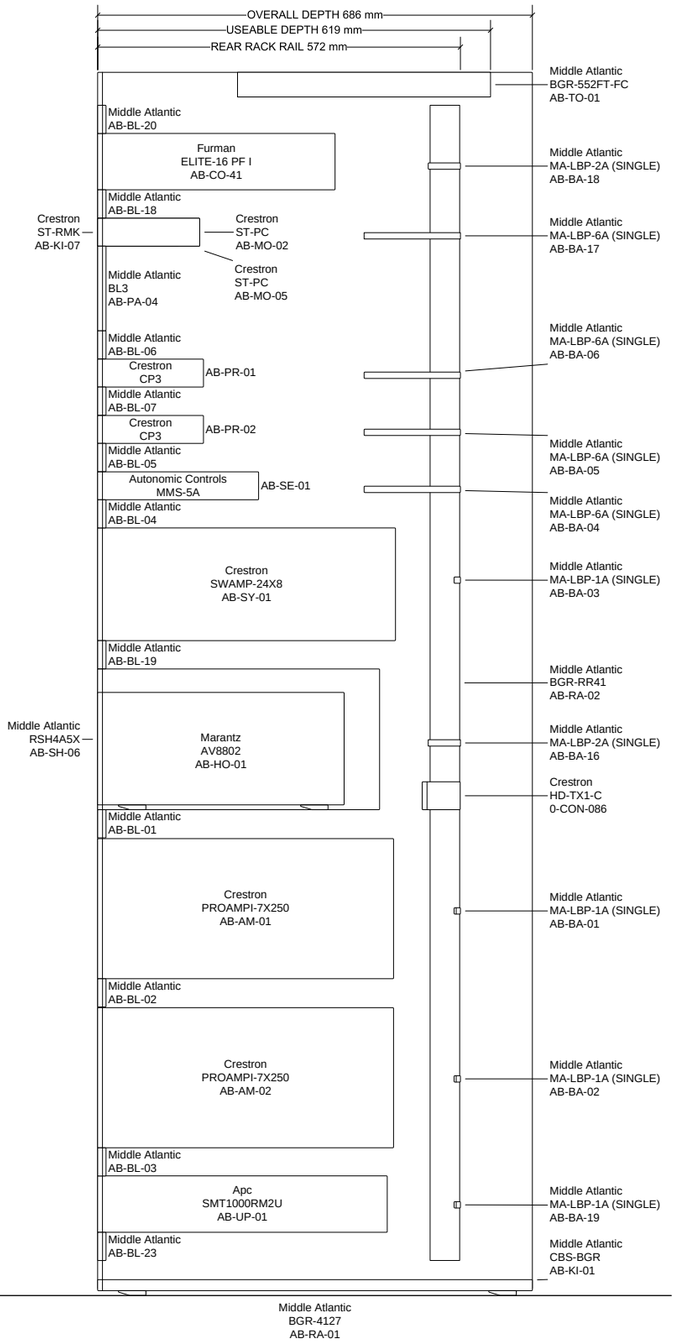
TITLE:
**Main Racks Front**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:5@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB_02_C | | P0 |

| Model | Description | QTY | Total U | Total Watts | Total BTU | Total KG |
|---|---|---|---|---|---|---|
| **Apc** | | | | | | |
| SMT1000RM2U | Smart UPS - 700 Watt/1000 | 1 | 2 | 1000 | 3413.71 | 28.18 |
| **Autonomic Controls** | | | | | | |
| MMS-5A | Five-source mirage media | 1 | 1 | 64.6 | 220.42 | 3.6 |
| **Crestron** | | | | | | |
| CP3 | Control processor with ethernet | 2 | 2 | 30.24 | 103.18 | 2.84 |
| HD-TX1-C | Hdmi over shielded twisted pair | 1 | | | | 0.07 |
| PROAMPI-7X250 | Procise high-definition | 2 | 10 | 2760 | 1250 | 96 |
| PW-2407WU | Power pack, desktop, 24vdc, | 1 | | | | |
| PW-2420RU | Power pack, desktop, 24vdc, | 2 | | | | |
| ST-PC | Dual power control module, | 2 | | 12 | 40.94 | 2.3 |
| ST-RMK | Rack mount kit for cresnet | 1 | 1 | | | 0.5 |
| SWAMP-24X8 | Professional audio distribution | 1 | 4 | 219.8 | 750 | 27.3 |
| **Furman** | | | | | | |
| ELITE-16 PF I | Ultra-linear AC power source | 1 | 2 | 2 | 7.85 | 8 |
| **Marantz** | | | | | | |
| AV8802 | Network audio/video pre- | 1 | | 90 | 306.06 | 13.6 |
| **Middle Atlantic** | | | | | | |
| BL1 | 1 space (1 3/4 in.) flanged | 11 | 11 | | | 1.54 |
| BL3 | BL series flanged panel, 3 | 1 | 3 | | | 0.32 |
| RSH4A5X | 5 space black brushed custom | 1 | 5 | | | |
| BGR-4127 | Gangable rack enclosure | 1 | | | | 65.33 |
| BGR-552FT-FC | Top option - fan top with | 1 | | | | 4.35 |
| BGR-CC-27LT | Cable chase top | 1 | | | | 1.78 |
| BGR-CC-41FB | Cable chase lift | 1 | | | | 6.67 |
| BGR-RR41 | Threaded rackrail - pair | 1 | | | | 6.22 |
| BVFD-41 | Bgr series front door -vented | 1 | | | | 14.22 |
| CBS-BGR | Caster kit | 1 | | | | 7.78 |
| HP500 | Standard rack screw x 500 | 1 | | | | |
| MA-LBP-1A (SINGLE) | L shaped lacing bar, only | 4 | | | | |
| MA-LBP-2A (SINGLE) | L shaped lacing bar, 50mm | 2 | | | | |
| MA-LBP-6A (SINGLE) | L shaped lacing bar, 150mm | 5 | | | | |
| VBK-BGR | Rear door vent strip | 1 | | | | 1.47 |
| **Totals** | | | **41** | **4178.64** | **6092.16** | **292.07** |



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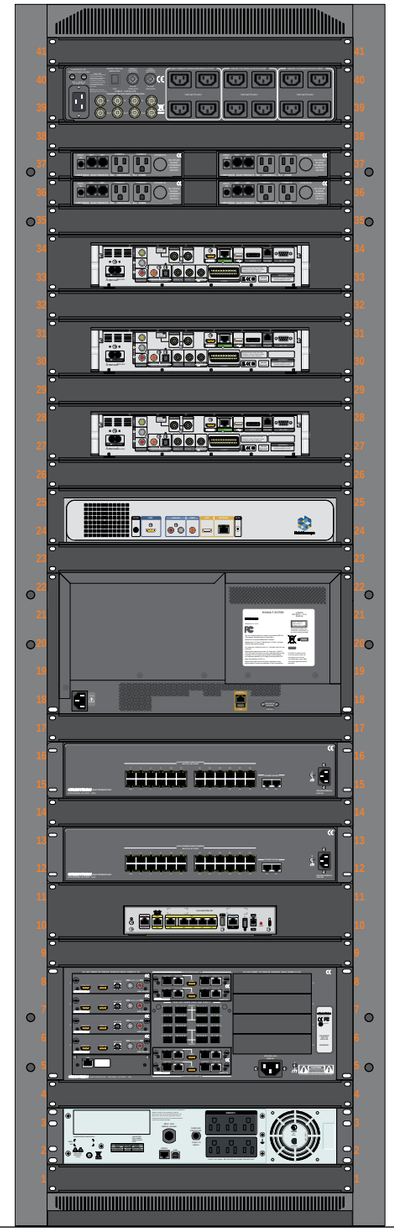
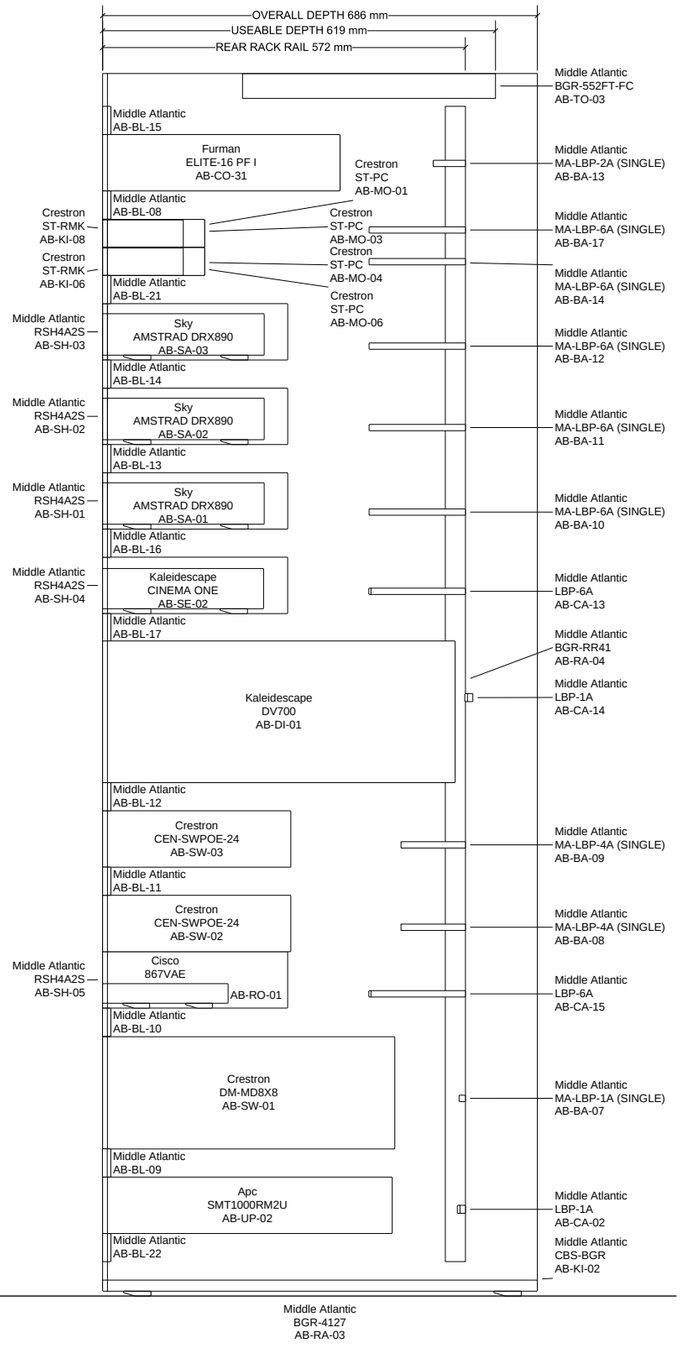
TITLE:
**Main Rack Left Build**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:5@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB_02_C | | P0 |

| Model | Description | QTY | Total U | Total Watts | Total BTU | Total KG |
|---|---|---|---|---|---|---|
| **Apc** | | | | | | |
| SMT1000RM2U | Smart UPS - 700 Watt/1000 | 1 | 2 | 1000 | 3413 | 28.18 |
| **Cisco** | | | | | | |
| 867VAE | 4-port 10/100 VDSL2/ADSL2+ | 1 | | 60 | 204 | 2.5 |
| **Crestron** | | | | | | |
| CEN-SWPOE-24 | 24-port managed poe switch | 2 | 4 | 920 | 800 | 3.72 |
| DMC-HD-DSP | Hdmi input card w/down-mixing | 4 | | | | 0.92 |
| DMCO-55 | 4 DM 8g+ with 2 hdmi output | 2 | | | | |
| DM-MD8X8 | High definition audio/video | 1 | 4 | 300 | 750 | 9.1 |
| ST-PC | Dual power control module, | 4 | | 24 | 81.88 | 4.6 |
| ST-RMK | Rack mount kit for cresnet | 2 | 2 | | | 1 |
| **Furman** | | | | | | |
| ELITE-16 PF I | Ultra-linear AC power source | 1 | 2 | 2 | 7.85 | 8 |
| **Kaleidescape** | | | | | | |
| CINEMA ONE | Cinema one ultimate movie | 1 | | 90 | 310 | 10.9 |
| DV700 | Disc vault for housing and | 1 | 5 | 46 | 160 | 22.23 |
| **Middle Atlantic** | | | | | | |
| BL1 | 1 space (1 3/4 in.) flanged | 12 | 12 | | | 1.68 |
| BGR-4127 | Gangable rack enclosure | 1 | | | | 65.33 |
| BGR-552FT-FC | Top option - fan top with | 1 | | | | 4.35 |
| BGR-RR41 | Threaded rackrail - pair | 1 | | | | 6.22 |
| BSPN-41-27 | Side panel | 1 | | | | 24 |
| BVFD-41 | Bgr series front door -vented | 1 | | | | 14.22 |
| C | Clamp kit for rsh | 4 | | | | 1.8 |
| CBS-BGR | Caster kit | 1 | | | | 7.78 |
| HP500 | Standard rack screw x 500 | 1 | | | | |
| MA-LBP-1A (SINGLE) | L shaped lacing bar, only | 3 | | | | |
| MA-LBP-2A (SINGLE) | L shaped lacing bar, 50mm | 1 | | | | |
| MA-LBP-4A (SINGLE) | L shaped lacing bar, 100mm | 2 | | | | |
| MA-LBP-6A (SINGLE) | L shaped lacing bar, 150mm | 8 | | | | |
| RSH4A2S | 2 space custom rackmount | 5 | 10 | | | |
| VBK-BGR | Rear door vent strip | 1 | | | | 1.47 |
| **Sky** | | | | | | |
| AMSTRAD DRX890 | High definition satellite receiver | 3 | | 135 | 470.85 | 6.9 |
| **Totals** | | | **41** | **2577** | **6197.58** | **224.9** |






NOTES:

P0 Drawn KJ 05/10/16

| REV: | DESCRIPTION: | BY: | DATE: |
|---|---|---|---|

STATUS: Preliminary - not for construction

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CLIENT:

SITE:

TITLE:
**Main Rack Right Build**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| 1:5@A1 | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB_02_C | | P0 |

KALEIDESCAPE | AB-SE-02 | CINEMA ONE
RCA - LRAUD - ZONE 2 — AB-A-01
RCA - LRAUD - ZONE 3 — AB-A-16
IN | VLAN 2 IP: 10.196.65.72/255.255.255.0 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

AUTONOMIC CONTROLS | AB-SE-01 | MMS-5A
RCA - AUD-LR - D-LR — AB-R-05
RCA - AUD-LR - C-LR — AB-R-04
RCA - AUD-LR - B-LR — AB-R-03
RCA - AUD-LR - A-LR — AB-R-02
RCA - D AUD - MAIN (DIG) — AB-A-15
IN | VLAN 2 IP: 10.196.65.101/255.255.255.0 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

CRESTRON | AB-SY-01 | SWAMP-24X8

| | | |
|---|---|---|
| AB-A-01 → L/R 1 - AUD - RCA | TERM BLK - SPK - SPK L 1 | AB-S-02 |
| AB-A-16 → L/R 2 - AUD - RCA | TERM BLK - SPK - SPK R 1 | AB-S-01 |
| AB-R-05 → L/R 3 - AUD - RCA | TERM BLK - SPK - SPK L 2 | AC-S-01 |
| AB-R-04 → L/R 4 - AUD - RCA | TERM BLK - SPK - SPK R 2 | AC-S-02 |
| AB-R-03 → L/R 5 - AUD - RCA | TERM BLK - SPK - SPK L 3 | BA-S-01 |
| AB-R-02 → L/R 6 - AUD - RCA | TERM BLK - SPK - SPK R 3 | BA-S-02 |
| AB-R-09 → L/R 7 - AUD - RCA | TERM BLK - SPK - SPK L 4 | BC-S-02 |
| AB-R-08 → L/R 8 - AUD - RCA | TERM BLK - SPK - SPK R 4 | BC-S-01 |
| AB-R-07 → L/R 9 - AUD - RCA | TERM BLK - SPK - SPK L 5 | BG-S-02 |
| AB-R-06 → L/R 10 - AUD - RCA | TERM BLK - SPK - SPK R 5 | BG-S-01 |
| | TERM BLK - SPK - SPK L 6 | BD-S-02 |
| | TERM BLK - SPK - SPK R 6 | BD-S-01 |
| | TERM BLK - SPK - SPK L 7 | AA-S-01 |
| | TERM BLK - SPK - SPK R 7 | AA-S-02 |
| | TERM BLK - SPK - SPK L 8 | AG-S-02 |
| | TERM BLK - SPK - SPK R 8 | AG-S-01 |

IN | VLAN 1 IP: 10.196.64.32/255.255.255.0 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

CRESTRON | AB-SW-01 | DM-MD8X8
IN | VLAN 1 IP: 10.196.64.31/255.255.255.0 | OUT

| | | |
|---|---|---|
| CRESTRON | AB-CA-06 | DMC-HD-DSP |
| | RCA - LRAUD - AUDIO LR | AB-R-09 |
| | HDMI - DAV - HDMI | AB-V-06 |
| IN | | OUT |
| CRESTRON | AB-CA-05 | DMC-HD-DSP |
| | RCA - LRAUD - AUDIO LR | AB-R-08 |
| | HDMI - DAV - HDMI | AB-V-07 |
| IN | | OUT |
| CRESTRON | AB-CA-04 | DMC-HD-DSP |
| | RCA - LRAUD - AUDIO LR | AB-R-07 |
| | HDMI - DAV - HDMI | AB-V-08 |
| IN | | OUT |
| CRESTRON | AB-CA-03 | DMC-HD-DSP |
| | RCA - LRAUD - AUDIO LR | AB-R-06 |
| | HDMI - DAV - HDMI | AB-V-09 |
| IN | | OUT |

A - GROUND\AB - LOUNGE/DINER\HE:AV

MARANTZ | AB-HO-01 | AV8802

| | | |
|---|---|---|
| AB-V-06 → HDMI 1 - DAV - HDMI | XLR - BAUD - FRONT L | AB-A-02 |
| AB-V-07 → HDMI 2 - DAV - HDMI | XLR - BAUD - CENTER | AB-A-08 |
| AB-V-08 → HDMI 3 - DAV - HDMI | XLR - BAUD - FRONT R | AB-A-03 |
| AB-V-09 → HDMI 4 - DAV - HDMI | XLR - BAUD - SURR L | AB-A-04 |
| AB-A-15 → COAX 1 - DAUD - RCA | XLR - BAUD - SURR R | AB-A-05 |
| | XLR - BAUD - BACK L | AB-A-06 |
| | XLR - BAUD - BACK R | AB-A-07 |
| | XLR - BAUD - H 1 L | AB-A-09 |
| | XLR - BAUD - H 1 R | AB-A-10 |
| | XLR - BAUD - H 2 L | AB-A-11 |
| | XLR - BAUD - H 2 R | AB-A-12 |
| | XLR - BAUD - SUB 1 | AB-A-13 |
| | XLR - BAUD - SUB 2 | AB-A-14 |

IN | VLAN 1 IP: 10.196.64.33/255.255.255.0 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

CRESTRON | AB-AM-02 | PROAMPI-7X250

| | | |
|---|---|---|
| AB-A-02 → L - B AUD - XLR | TERM BLK - SPK - L | CA-S-01 |
| AB-A-08 → C - B AUD - XLR | TERM BLK - SPK - C | CA-S-02 |
| AB-A-03 → R - B AUD - XLR | TERM BLK - SPK - R | CA-S-03 |
| AB-A-04 → SL - B AUD - XLR | TERM BLK - SPK - SL | CA-S-04 |
| AB-A-05 → SR - B AUD - XLR | TERM BLK - SPK - SR | CA-S-05 |
| AB-A-06 → SBL - B AUD - XLR | TERM BLK - SPK - SBL | CA-S-06 |
| AB-A-07 → SBR - B AUD - XLR | TERM BLK - SPK - SBR | CA-S-07 |

IN | VLAN 1 IP: 10.196.64.41/255.255.255.0 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

CRESTRON | AB-AM-01 | PROAMPI-7X250

| | | |
|---|---|---|
| AB-A-09 → L - B AUD - XLR | TERM BLK - SPK - L | CA-S-08 |
| AB-A-10 → R - B AUD - XLR | TERM BLK - SPK - R | CA-S-09 |
| AB-A-11 → SL - B AUD - XLR | TERM BLK - SPK - SL | CA-S-10 |
| AB-A-12 → SR - B AUD - XLR | TERM BLK - SPK - SR | CA-S-11 |
| AB-A-13 → SBL - B AUD - XLR | TERM BLK - SPK - SBL | CA-S-21 |
| AB-A-14 → SBR - B AUD - XLR | TERM BLK - SPK - SBR | CA-S-22 |

IN | VLAN 1 IP: 10.196.64.23/255.255.255.0 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

CRESTRON EXCITE_IC8-W-T AB-SP-02
AB-S-02 → +/- - SPK SPRING - SPK
A - GROUND\AB - LOUNGE/DINER
CRESTRON EXCITE_IC8-W-T AB-SP-01
AB-S-01 → +/- - SPK SPRING - SPK
A - GROUND\AB - LOUNGE/DINER

CRESTRON EXCITE_IC8-W-T AC-SP-01
AC-S-01 → +/- - SPK SPRING - SPK
A - GROUND\AC - KITCHEN
CRESTRON EXCITE_IC8-W-T AC-SP-02
AC-S-02 → +/- - SPK SPRING - SPK
A - GROUND\AC - KITCHEN

CRESTRON EXCITE_IC8-W-T BA-SP-01
BA-S-01 → +/- - SPK SPRING - SPK
B - FIRST\BA - BED 2
CRESTRON EXCITE_IC8-W-T BA-SP-02
BA-S-02 → +/- - SPK SPRING - SPK
B - FIRST\BA - BED 2

CRESTRON EXCITE_IC6DT-W-T BC-SP-01
BC-S-02 → L +/- - SPK - SPK
BC-S-01 → R +/- - SPK - SPK
B - FIRST\BC - BATH 2

CRESTRON EXCITE_IC8-W-T [EACH] BG-SP-02
BG-S-02 → +/- - PUSH - SPK
B - FIRST\BG - BED 3
CRESTRON EXCITE_IC8-W-T [EACH] BG-SP-01
BG-S-01 → +/- - PUSH - SPK
B - FIRST\BG - BED 3

CRESTRON EXCITE_IC8-W-T BB-SP-02
BB-S-02 → +/- - SPK SPRING - SPK
B - FIRST\BB - MASTER BED
CRESTRON EXCITE_IC8-W-T BB-SP-01
BB-S-01 → +/- - SPK SPRING - SPK
B - FIRST\BB - MASTER BED

CRESTRON EXCITE_IC6DT-W-T BD-SP-01
BD-S-02 → L +/- - SPK - SPK
BD-S-01 → R +/- - SPK - SPK
B - FIRST\BD - BATH 1

CRESTRON EXCITE_IC6DT-W-T AE-SP-01
AE-S-02 → L +/- - SPK - SPK
AE-S-01 → R +/- - SPK - SPK
A - GROUND\AE - BATH 3

CRESTRON EXCITE_IC8-W-T AA-SP-01
AA-S-01 → +/- - SPK SPRING - SPK
A - GROUND\AA - BED 4
CRESTRON EXCITE_IC8-W-T AA-SP-02
AA-S-02 → +/- - SPK SPRING - SPK
A - GROUND\AA - BED 4

CRESTRON EXCITE_IC8-W-T AG-SP-02
AG-S-02 → +/- - SPK SPRING - SPK
A - GROUND\AG - STUDY
CRESTRON EXCITE_IC8-W-T AG-SP-01
AG-S-01 → +/- - SPK SPRING - SPK
A - GROUND\AG - STUDY

ARTCOUSTIC LOUDSPEAKERS SPITFIRE SL 16-8 CA-SP-01
CA-S-01 → +/- - PUSHBUTTON - SPK
LEFT FRONT
C - LOFT\CA - CINEMA

ARTCOUSTIC LOUDSPEAKERS SPITFIRE SL 16-8 CA-SP-02
CA-S-02 → +/- - PUSHBUTTON - SPK
CENTRE
C - LOFT\CA - CINEMA

ARTCOUSTIC LOUDSPEAKERS SPITFIRE SL 16-8 CA-SP-03
CA-S-03 → +/- - PUSHBUTTON - SPK
RIGHT FRONT
C - LOFT\CA - CINEMA

ARTCOUSTIC 40-30 SL 4-2 CA-SP-04
CA-S-04 → +/- - PUSH - SPK
LEFT SURR
C - LOFT\CA - CINEMA

ARTCOUSTIC 40-30 SL 4-2 CA-SP-05
CA-S-05 → +/- - PUSH - SPK
RIGHT SURR
C - LOFT\CA - CINEMA

ARTCOUSTIC 40-30 SL 4-2 CA-SP-06
CA-S-06 → +/- - PUSH - SPK
LEFT BACK
C - LOFT\CA - CINEMA

ARTCOUSTIC 40-30 SL 4-2 CA-SP-07
CA-S-07 → +/- - PUSH - SPK
RIGHT BACK
C - LOFT\CA - CINEMA

ARTCOUSTIC ARCHITECT 4-2 SL CA-SP-08
CA-S-08 → +/- - PUSH - SPK
L F OVERHEAD
C - LOFT\CA - CINEMA

ARTCOUSTIC ARCHITECT 4-2 SL CA-SP-09
CA-S-09 → +/- - PUSH - SPK
R F OVERHEAD
C - LOFT\CA - CINEMA

ARTCOUSTIC ARCHITECT 4-2 SL CA-SP-10
CA-S-10 → +/- - PUSH - SPK
L B OVERHEAD
C - LOFT\CA - CINEMA

ARTCOUSTIC ARCHITECT 4-2 SL CA-SP-11
CA-S-11 → +/- - PUSH - SPK
R B OVERHEAD
C - LOFT\CA - CINEMA

ARTCOUSTIC SPITFIRE CONTROL 3 SUB W/O AMP CA-SU-01
CA-S-21 → +/- - PUSH - SPK
LEFT SUB
C - LOFT\CA - CINEMA

ARTCOUSTIC SPITFIRE CONTROL 3 SUB W/O AMP CA-SU-02
CA-S-22 → +/- - PUSH - SPK
RIGHT SUB
C - LOFT\CA - CINEMA

NOTES:

AUDIO/VIDEO
COMMUNICATIONS
SAFETY & SECURITY
ENVIRONMENTAL
CONTROL
ELECTRICAL

A0 Drawn KJ 05/10/16

| REV: | DESCRIPTION: | BY: | DATE: |
|---|---|---|---|

STATUS: Preliminary - not for construction

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INTEGRATOR:
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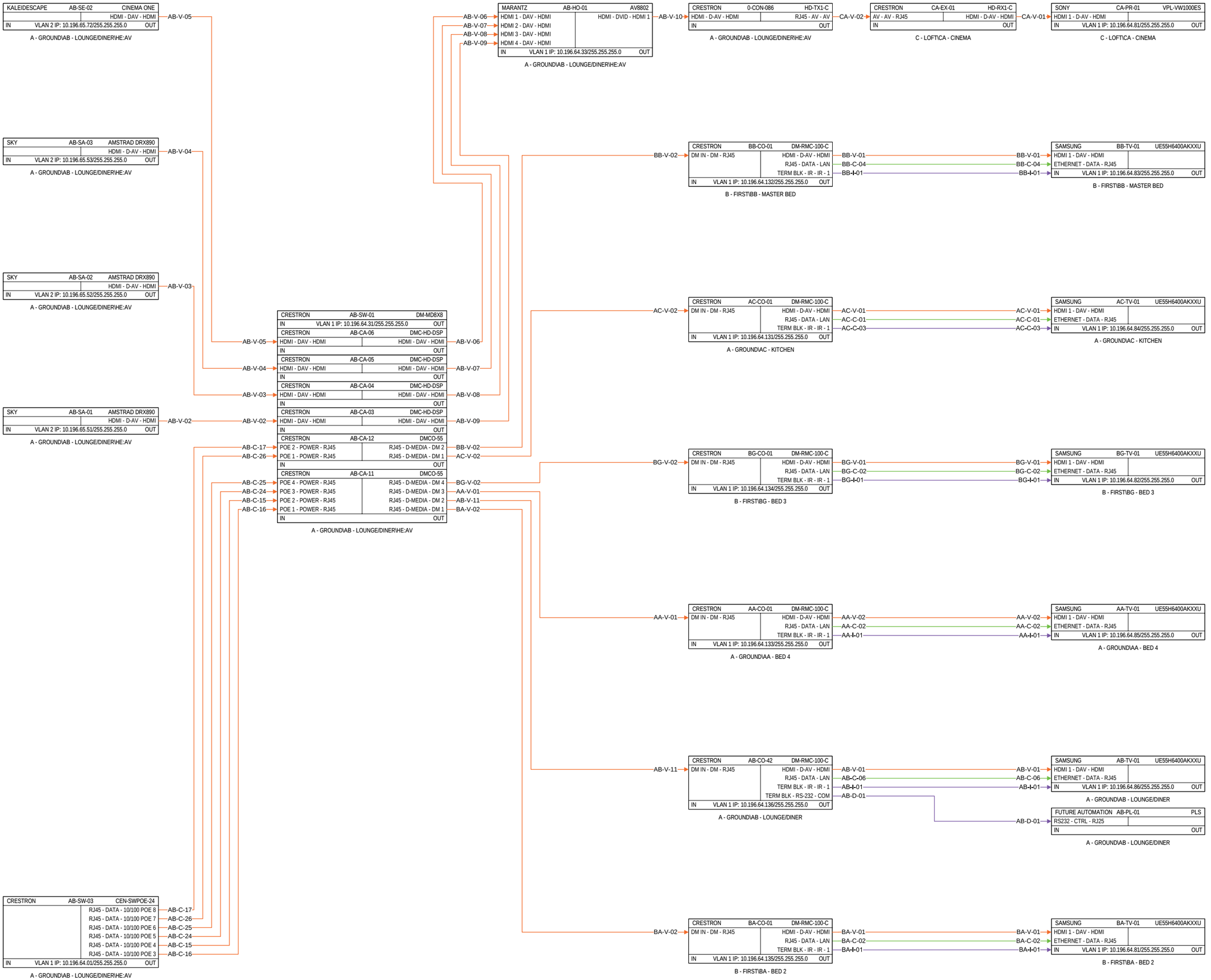
CLIENT:

SITE:

TITLE: **Distributed Audio/Cinema Schematic**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| NTS | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB_02_C | | A0 |




NOTES:

AUDIO/VIDEO

COMMUNICATIONS

SAFETY & SECURITY

ENVIRONMENTAL

CONTROL

ELECTRICAL

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| REV: | DESCRIPTION: | BY: | DATE: |
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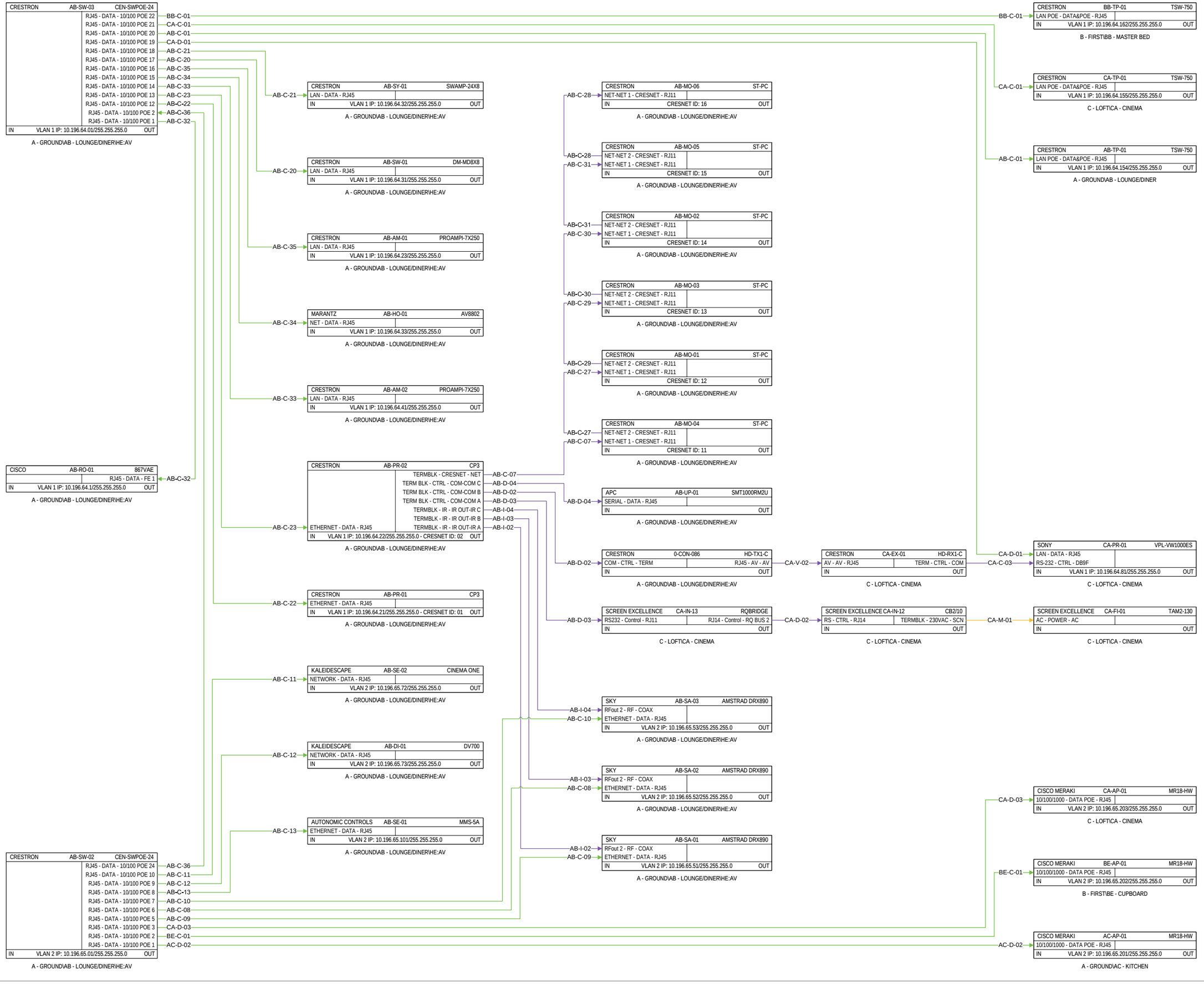
CLIENT:

SITE:

TITLE: **Distributed Video/PoH/IR/ RS232/LAN Schematic**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| NTS | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB_02_C | | A0 |




NOTES:

AUDIO/VIDEO

COMMUNICATIONS

SAFETY & SECURITY

ENVIRONMENTAL

CONTROL

ELECTRICAL

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CLIENT:

SITE:

TITLE: **Control/Network/PoE Schematic**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| NTS | 05/10/2016 | KJ | KA |
| PROJECT NO: YB_02_C | DRAWING NO: | | REVISION: A0 |

CRESTRON | CA-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← CA-K-01
IN | CRESNET ID: 72 | OUT
C - LOFT\CA - CINEMA

CRESTRON | BA-KP-02 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BA-K-12
IN | CRESNET ID: 63 | OUT
B - FIRST\BA - BED 2

CRESTRON | BA-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BA-K-02
IN | CRESNET ID: 62 | OUT
B - FIRST\BA - BED 2

CRESTRON | BC-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BC-K-01
IN | CRESNET ID: 64 | OUT
B - FIRST\BC - BATH 2

CRESTRON | BG-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BG-K-01
IN | CRESNET ID: 65 | OUT
B - FIRST\BG - BED 3

CRESTRON | BG-KP-02 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BG-K-01
IN | CRESNET ID: 66 | OUT
B - FIRST\BG - BED 3

CRESTRON | BH-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BH-K-01
IN | CRESNET ID: 71 | OUT
B - FIRST\BH - STUDY

CRESTRON | BB-KP-03 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BH-K-01
IN | CRESNET ID: 70 | OUT
B - FIRST\BB - MASTER BED

CRESTRON | BB-KP-02 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BB-K-03
IN | CRESNET ID: 69 | OUT
B - FIRST\BB - MASTER BED

CRESTRON | BB-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BB-K-02
IN | CRESNET ID: 68 | OUT
B - FIRST\BB - MASTER BED

CRESTRON | BF-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← BF-K-01
IN | CRESNET ID: 67 | OUT
B - FIRST\BF - WALKWAY

CRESTRON | AC-KP-03 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AF-K-01
IN | CRESNET ID: 59 | OUT
A - GROUND\AC - KITCHEN

CRESTRON | AF-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AF-K-01
IN | CRESNET ID: 61 | OUT
A - GROUND\AF - UTILITY

CRESTRON | AC-KP-02 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AC-K-02
IN | CRESNET ID: 58 | OUT
A - GROUND\AC - KITCHEN

CRESTRON | AC-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AC-K-01
IN | CRESNET ID: 57 | OUT
A - GROUND\AC - KITCHEN

CRESTRON | AA-KP-02 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AA-K-02
IN | CRESNET ID: 52 | OUT
A - GROUND\AA - BED 4

CRESTRON | AA-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AG-K-01
IN | CRESNET ID: 51 | OUT
A - GROUND\AA - BED 4

CRESTRON | AG-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AG-K-01
IN | CRESNET ID: 54 | OUT
A - GROUND\AG - STUDY

CRESTRON | AE-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AB-K-01
IN | CRESNET ID: 53 | OUT
A - GROUND\AE - BATH 3

CRESTRON | AB-KP-01 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AB-K-01
IN | CRESNET ID: 55 | OUT
A - GROUND\AB - LOUNGE/DINER

CRESTRON | AB-KP-02 | C2NI-CB-B-T
TERM-BLK - CTRL - NET ← AB-K-03
IN | CRESNET ID: 56 | OUT
A - GROUND\AB - LOUNGE/DINER

CRESTRON | AB-PR-01 | CP3
TERMBLK - CRESNET - NET ← AB-C-03
IN | VLAN 1 IP: 10.196.64.21/255.255.255.0 - CRESNET ID: 01 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:AV

CRESTRON | AB-TE-01 | CAEN-BLOCK
NET - CTRL - PHOENIX-4 ← BA-K-12
NET - CTRL - PHOENIX-4 ← BF-K-01
NET - CTRL - PHOENIX-4 ← AC-K-03
NET - CTRL - PHOENIX-4 ← AB-C-03
OVERRIDE - CTRL - PHOENIX-3
OVERRIDE - CTRL - PHOENIX-3
TERM-BLK - CTRL - LEFT → AB-C-37
TERM-BLK - CTRL - RIGHT → AB-C-38
IN | CRESNET ID: 09 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-14 → CRESTRON | AB-MO-07 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M7-D1
TERM-BLK - POWER - DIM 2 → A-M7-D2
TERM-BLK - POWER - DIM 3 → A-M7-D3
TERM-BLK - POWER - DIM 4 → A-M7-D4
TERM-BLK - POWER - DIM 5 → A-M7-D5
TERM-BLK - POWER - DIM 6 → A-M7-D6
TERM-BLK - POWER - DIM 7 → A-M7-D7
TERM-BLK - POWER - DIM 8 → A-M7-D8
IN | CRESNET ID: 21 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-18 → CRESTRON | AB-MO-08 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M8-D1
TERM-BLK - POWER - DIM 2 → A-M8-D2
TERM-BLK - POWER - DIM 3 → A-M8-D3
TERM-BLK - POWER - DIM 4 → A-M8-D4
TERM-BLK - POWER - DIM 5 → A-M8-D5
TERM-BLK - POWER - DIM 6 → A-M8-D6
TERM-BLK - POWER - DIM 7 → A-M8-D7
TERM-BLK - POWER - DIM 8 → A-M8-D8
IN | CRESNET ID: 22 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-19 → CRESTRON | AB-MO-09 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M9-D1
TERM-BLK - POWER - DIM 2 → A-M9-D2
TERM-BLK - POWER - DIM 3 → A-M9-D3
TERM-BLK - POWER - DIM 4 → A-M9-D4
TERM-BLK - POWER - DIM 5 → A-M9-D5
TERM-BLK - POWER - DIM 6 → A-M9-D6
TERM-BLK - POWER - DIM 7 → A-M9-D7
TERM-BLK - POWER - DIM 8 → A-M9-D8
IN | CRESNET ID: 23 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-37 → CRESTRON | AB-MO-10 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M10-D1
TERM-BLK - POWER - DIM 2 → A-M10-D2
TERM-BLK - POWER - DIM 3 → A-M10-D3
TERM-BLK - POWER - DIM 4 → A-M10-D4
TERM-BLK - POWER - DIM 5 → A-M10-D5
TERM-BLK - POWER - DIM 6 → A-M10-D6
TERM-BLK - POWER - DIM 7 → A-M10-D7
TERM-BLK - POWER - DIM 8 → A-M10-D8
IN | CRESNET ID: 24 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-38 → CRESTRON | AB-MO-11 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M12-D1
TERM-BLK - POWER - DIM 2 → A-M12-D2
TERM-BLK - POWER - DIM 3 → A-M12-D3
TERM-BLK - POWER - DIM 4 → A-M12-D4
TERM-BLK - POWER - DIM 5 → A-M12-D5
TERM-BLK - POWER - DIM 6 → A-M12-D6
TERM-BLK - POWER - DIM 7 → A-M12-D7
TERM-BLK - POWER - DIM 8 → A-M12-D8
IN | CRESNET ID: 25 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-39 → CRESTRON | AB-MO-12 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M12-D1
TERM-BLK - POWER - DIM 2 → A-M12-D2
TERM-BLK - POWER - DIM 3 → A-M12-D3
TERM-BLK - POWER - DIM 4 → A-M12-D4
TERM-BLK - POWER - DIM 5 → A-M12-D5
TERM-BLK - POWER - DIM 6 → A-M12-D6
TERM-BLK - POWER - DIM 7 → A-M12-D7
TERM-BLK - POWER - DIM 8 → A-M12-D8
IN | CRESNET ID: 26 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-40 → CRESTRON | AB-MO-13 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M13-D1
TERM-BLK - POWER - DIM 2 → A-M13-D2
TERM-BLK - POWER - DIM 3 → A-M13-D3
TERM-BLK - POWER - DIM 4 → A-M13-D4
TERM-BLK - POWER - DIM 5 → A-M13-D5
TERM-BLK - POWER - DIM 6 → A-M13-D6
TERM-BLK - POWER - DIM 7 → A-M13-D7
TERM-BLK - POWER - DIM 8 → A-M13-D8
IN | CRESNET ID: 27 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

AB-C-41 → CRESTRON | AB-MO-14 | CLXI-2DIM8
NET/OVERRIDE - CTRL - TERM-BLK
TERM-BLK - POWER - DIM 1 → A-M14-D1
TERM-BLK - POWER - DIM 2 → A-M14-D2
TERM-BLK - POWER - DIM 3 → A-M14-D3
TERM-BLK - POWER - DIM 4 → A-M14-D4
TERM-BLK - POWER - DIM 5 → A-M14-D5
TERM-BLK - POWER - DIM 6 → A-M14-D6
TERM-BLK - POWER - DIM 7 → A-M14-D7
TERM-BLK - POWER - DIM 8 → A-M14-D8
IN | CRESNET ID: 28 | OUT
A - GROUND\AB - LOUNGE/DINER\HE:C

NOTES:

AUDIO/VIDEO
COMMUNICATIONS
SAFETY & SECURITY
ENVIRONMENTAL
CONTROL
ELECTRICAL

A0 Drawn KJ 05/10/16

| REV: | DESCRIPTION: | BY: | DATE: |
|---|---|---|---|

STATUS: Preliminary - not for construction

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INTEGRATOR:
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100 Your Road,
Your Town., YT1 1YT.

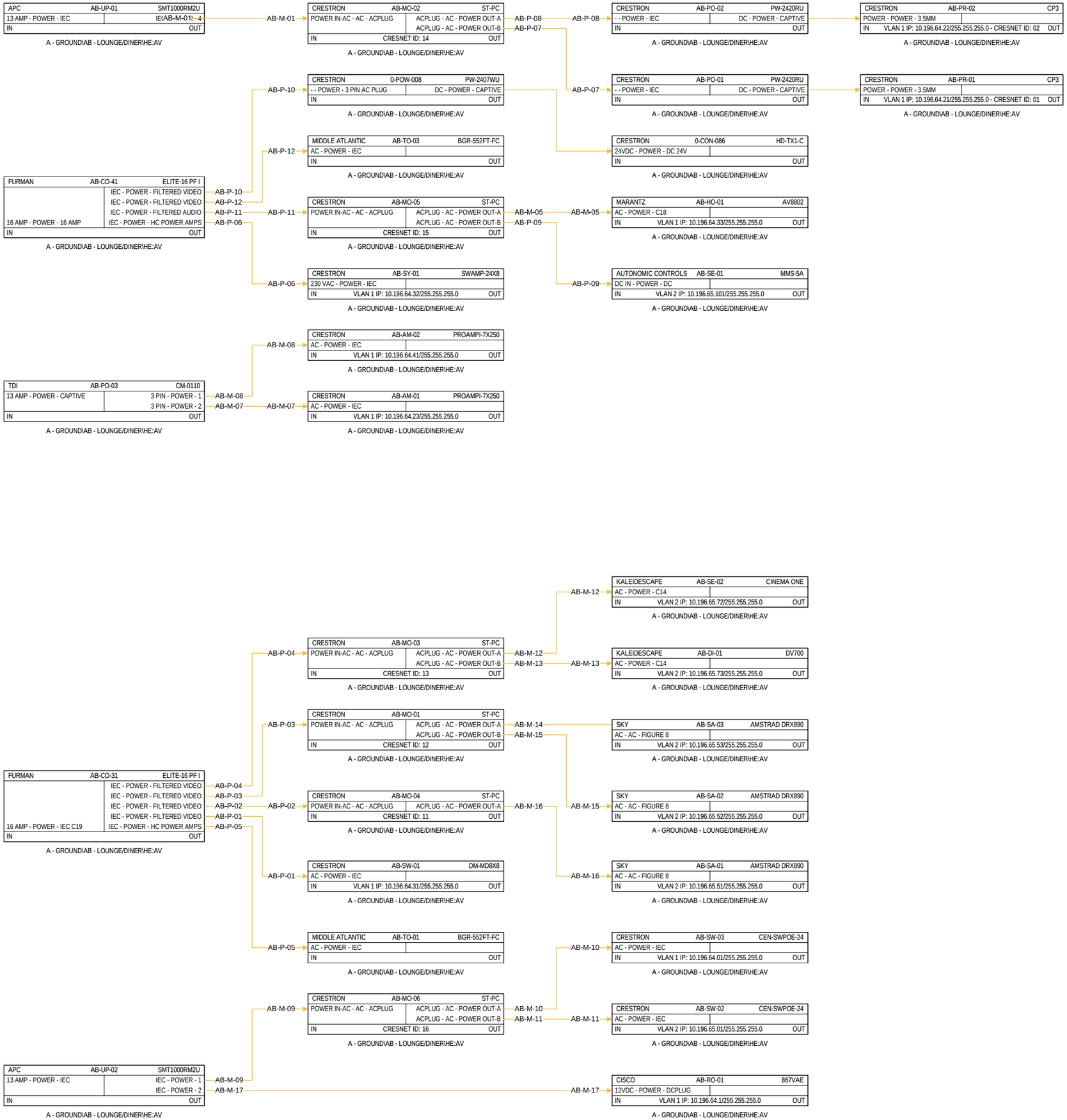
CLIENT:

SITE:

TITLE:
**Lighting Schematic**

| SCALE: | DATE: | DRAWN: | CHECKED: |
|---|---|---|---|
| NTS | 05/10/2016 | KJ | KA |

| PROJECT NO: | DRAWING NO: | REVISION: |
|---|---|---|
| YB_02_C | | A0 |



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