

Your Name of Details
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Date:

Ref No:

Dear Lisa,

FOA:

Re:

Further to your valued enquiry, please find herewith our completed Electrical tender for the above project.

Section Name	Value
Primary Containment	£2,956.30
Basement Containment	£1,503.92
Ground Floor Low Level Secondary Containment	£2,601.54
Ground Floor High Level Secondary Containment	£6,690.86
1st Floor High- & Low-Level Secondary Containment	£3,880.58
New Mains Panel DB1	£5,948.04
Small Power	£15,511.82
Lighting Installation	£105,774.49
Lighting Controls and Switching	£19,685.55
External & Tower Lighting Installation	£10,898.20
Access Control & Intercom System	£4,660.55
Disabled Refuge System and Toilet Alarm	£3,608.22
CCTV System	£4,586.49
Grade 2 Wireless Intruder Alarm System	£3,366.31
Fire Alarm System	£14,2219.99
Data Installation	£6,027.22
Hand Dryers	£1,471.19
Lightning Protection	£4,170.06
Earthing & Bonding	£830.19
Car Charging Points	£2,613.67
Testing & Commissioning	£1,732.08
Working Drawings	£6,202.77
As installed Drawings	£1,694.77
O&M Manuals	£1,615.17
Design and Development	£8,490.16
Preliminaries	£12,706.36
Electrical Total EX VAT & Provisional Sums	£253,446.49
Provisional Sums	
New Supply (Budget Estimate)	£3,101.00
Unforeseen circumstances	£200.00
GRAND TOTAL EX VAT inc. Prov Sums	£256,747.49

Qualifications:

- All builders-works, if required, are to be carried out **by others** including chasing out, trenching and ducting where required.
- We have not included for MCD.
- We have not allowed for any site welfare facilities.
- We have not included for any non-working supervision.
- We have only allowed to carry out works in normal working hours (Mon-Fri 07:30-17:00).
- We have included for design.
- We exclude all design elements as this is being undertaken by others.
- We have not allowed for access equipment over the height of 3 meters.
- All prices are exclusive of VAT at the current rate.
- All prices will be held firm for 60 days from the date of this quotation.
- We have not made any allowances on the delay in the delivery of materials due to Britain leaving the European Union.
- We have not allowed for any site temps during the works.
- We have made no allowance for any builders-work or making good whatsoever including the removal and replacement of ceiling tiles and the like, excavation, sanding and refilling of cable trenches, external ducting and concrete bases.
- We have made no allowance for fire stopping.
- We have made no allowance for any out of hours working or phasing of the works.
- **Tender Notes:**

- **Primary Containment**

As shown on the Ground Floor Drawing, there are two trenches running along the total length of the floor – these to have Tray and Basket installed within .

We have also allowed to all the 100mm Ducting which runs to and from the trench containment. Beside this there are also Tray and Basket containment beneath the Stage.

- **Basement Containment**

We have allowed to install 75mm x 75mm Steel Trunking within the plant room area of the basement, along with all Galvanised Conduit Drops.

- **Ground Floor Low Level Secondary Containment**

There will be a system of Conduits running between all floor boxes and wall mounted power points.

A separate run of conduits will be installed as to carry the Data cabling.

We have allowed to use both Galvanised and PVC Conduits for this element.

- **Ground Floor High Level Secondary Containment**

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- **1st Floor High- & Low-Level Secondary Containment**

We have allowed for Conduits to run to high level for the installation of the lighting, however; we would like to suggest there be a meeting before the installation start, as to fully design the cable routes.

This could lead to a saving, once we can see to full layout of both 1st Floor and Ceilings .

We feel we have cover sufficient amounts to ensure the installation will be adequate and also neat, as we have noted from the specification – carry to be taken on the installation and the overall appearance.

- **New Mains Panel DB1**

We will supply and install a new Mains Board BD01, this to consist of the following equipment, all supplied by Schneider:

This board will come with Surge Protection and Metering.

1 off SEA9BPN24 Isobar P 24W TP&N Distribution Board

1 off SEA9BNKWH MID Metering kit for Acti9 Isobar

1 X A9L16634 "IPRF1 12,5R 400V" Surge Protection

19 x A9F54116 ACTI9 IC60H 1P 16A C MCB

1 x A9F54106 ACTI9 IC60H 1P 6A C MCB

3 x A9D05816 Acti9iC60H 16A C 30mA RCBO

4 x A9F54110 ACTI9 IC60H 1P 10A C MCB

16 x A9D05820 Acti9iC60H 20A C 30mA RCBO

4 x A9D05832 Acti9iC60H 32A C 30mA RCBO

3 x A9F55120 ACTI9 IC60H 1P 20A D MCB

3 x A9F54120 ACTI9 IC60H 1P 20A C MCB

1 x SEA9BL Key lock for Acti9 Isobar Door Catch

1 X SEA9BNEX034N 17-way Din rail extension box

1 X SEA9NB4 Distributed neutral for 4-way B Type

1 X A9N18479 iC120H 4P 80A C Curve MCB

We have noted there is a provisional sum allowed for the new supply, this has been incorporated into our offer.

We have allowed for the installation of Trunking around the board as to enable easy access to the panel within the installation time and thereafter.

- **Small Power**

Within this section we have included all power, Spur and Isolators. All accessories have been taken from the MK Metal Clad Range with the exception to the 9 off Twin Sockets which are Wandsworth Stainless Steel.

It is worth pointing out, Wandsworth are closed due to the current Covid 19 crisis which meant we were unable to obtain a price – having to use a previous quotation from another project (same product)

The installation will be carried out using 6491B Single Core LSF Cabling drawn into conduits and Trunking.

Floor Boxes will be by Cableduct, we have allowed for a Standard Galvanised 85mm Deep Box to be used and have price for the same.

If however the construction and makeup of the floor of this church contains Limecrete, the supplier has offered either a Stainless Steel Based Box or Epoxy Coated on the exterior of the Galvanised Type .

There will be an additional cost for these, in the region of £135.00 each for the Stainless Steel or £48.00 for the Epoxy Coated – this has Not been allowed for within this offer.

- **Lighting Installation
&**

- **Externa & Tower Lighting Installation**

Allowances for all lighting as per the schedule and drawing take off at tender stage have been allowed for.

We have noted that there was a Lighting Equipment Schedule by the Consultant, which give detail, quantities and cost for each fitting.

We would like to point out all our lighting costs are based on the Manufacturers / Wholesalers cost and not that of SVA, it was very clear there is a significant difference in individual cost and it was therefore we used the current prices.

Just to clarify, some were dearer, where others were cheaper.

The installation will be carried out using 6491B Single Core LSF Cabling drawn into conduits and Trunking.

Where you have individual fittings, we have allowed to supply / install a Click Rose, Linear Track type of fitting to be wired directly.

We have allowed for all External Lighting, with regards to X5, W3 & X1 all to be wired from within the church.

W1 fittings to the Carpark Wall will be wired using 2.5mm x 3 Core SWA LSF cable, which will require a small trench to be dug (by others) from the Left-Hand Side of the Church along to the wall.

We will install Galvanised Conduit up to each fitting, as to enable a clean and neat installation.

We have allowed for a Dawn to Dust sensor and a Sangamo Time Clock.

• **Lighting Control System**

The system will be manufactured by *****, who have allowed for the supply and Commissioning of the system.

The system will consist of the following equipment:

Dimming Panels

1 off DIN-NPU-00-01 Edin network processor providing web browser control and programming via I Pad or Android phone when linked to the Ethernet.

3 off DIN-PSU-24V Edin 1000Ma power supply.

18 off MSR-05-04 four switched circuits rated at 5 amps each.

The above will be housed within 2 off ENC-DIN-MET-04-18 enclosure for the above modules.

690mm High x 455mm Wide x 115mm Deep

The Control will be via the following switches:

4 off EVO-SGP-55-BLKx2 Mode Evolution single gang 10 button keypad providing eight scenes, off and scene raise and lower. "one for K1 and three for "K2" c/w Stainless Steel cover plates .

19 off EVO-SGP-50-BLK Mode Evolution single gang 2 button keypad providing on and off. "SW1", c/w Stainless Steel cover plates .

1 off RDS1R/10/250 Single gang rotary controller for the Entrance.

There will also be 5 off SET-SEN-DIM-RM-P Set Square stand-alone presence / absence detector.

The system will require being wired with the following cables, looped between all the plates is the Mode EVO-CAB100-04-D and CAT5, both of which we have allowed for .

• **Access Control System**

The proposed system is the Paxton Net2 networked access control system. A networked system gives the advantages of central control, event reporting and flexible control over users' access. Each control unit is part of a network but can run independently making its own decisions and remembering events.

The Net2 plus control unit connects to the central administration PC using an RJ45 plug into a standard TCP/IP Ethernet network. This greatly increases the flexibility of installation options on sites that have LAN/WAN networks. The Net2 plus control unit also has a RS485 connection. This means it can be connected to other Net2 plus or Net2 classic control units using a dedicated CAT5 cable.

One Net2 plus control unit can be the network interface to the LAN and to run a wired RS485 daisy chain of other Net2 plus or Net2 classic units, removing the need for an independent TCP/IP to RS485 converter. Net2 plus is also available with a Power over Ethernet (PoE) power supply. PoE is a technology that allows both power and data to be passed along Ethernet cabling. Net2 plus with PoE simply plugs straight into the existing LAN using a standard RJ45 plug (providing it is powered by either a compatible PoE switch or a PoE injector).

The Features of the Net 2 Access Control Package

- Using the Paxton package will allow the customer to have control over who gains entry to your building.
- Each card can be individually programmed using time zones which means you can allow or refuse access to different doors within set timescales.
- Time zones can be created to give groups of people or individual's access at set times of the day.
- Bank holidays can be entered, and permissions set against these to allow or not allow access to staff.
- When users are added they instantly have the access rights that you have permitted also the access rights can be altered and then instantly update the doors.

- If a member of staff leaves or a card is lost, this can be barred easily from the system and so not be used.
- If the card is found, then it can be easily put back onto the system.
- All the doors can be controlled from one place.
- Every time a card is shown to a reader an event is generated which is then stored on the pc so activity can be traced.
- These standard reports can show all events, all events in a set time frame, last known position of a user and many others.
- The system will also let you see if unauthorised access has been attempted either by forcing a door or use of an invalid card.

Hardware Specification:

Access Door Controller, Single door networkable access control unit

Door Schedule, Qty 1 Building Access Control Doors, totalling 1 reader controllers.

1 door will be fitted with electronic magnetic locks with 500kg on external door.

Each door will be fitted with a proximity card reader for entry and a request to exit button for exit with the addition of an emergency break glass unit unless read in 1 read out is shown on the drawings.

Fire Interface, as part of the fire system, we have allowed for the relevant fire door interface to enable correct operation of the door in the event of a fire alarm activation.

Proximity key fobs for use with Paxton Net2 systems, making access control for your building or facility effortless yet secure. Each fob is encoded with a unique 8-digit numbering system. To issue a token the user's details are entered using the PC software. The token number is then entered by presenting the token to the desktop reader. The fobs should then be ready to use, working 2-8 Mm away from a Paxton reader. They have no battery, allowing for an infinite number of reads. Whilst small, they can be made more secure by attaching to a lanyard or keyring.

A desk top reader will be supplied that plugs into your dedicated PC, each card is set up to the customer's requirements and then shown to the desktop reader which programmes the card onto the system or changes specific requirements.

We have allowed for a Wi-Fi enabled monitors to allow for connection to your network and ultimately any mobile device via the BPT "video entry" APP.

- **Disabled Refuge System and Toilet Alarm**

We have allowed for the supply / installation of the following equipment:

1 off Disabled Refuge Controller, to be installed within the office area.

2 off Surface Mounted Stainless-Steel Outstations, both on the 1st Floor, one at the main stairs the other at the rear stairs.

All required device software.

We will also supply / install a Disabled Alarm system; this will be NC951 Accessible Toilet Alarm Kit

Allows a distressed person to raise an alarm in the event of an emergency. To operate, the user pulls the cord of a ceiling pull to activate a light and sounder outside the WC and on the system's Call Controller.

New 'Call Accept' functionality allows staff to send an intermittent call acknowledgment signal inside the WC to confirm help is on the way.

Includes an NC943B 12V 140mA Call Controller c/w standby battery and relay, NC807C Ceiling Pull, NC806CS Overdoor Light c/w Sounder, NC809DBBT Accessible Toilet Reset Point c/w Sounder and NC949 Accessible WC Sticker.

- **CCTV System**

To supply and install a High definition POE CCTV system as set out and indicated within the drawings with additional reference to the specification. We have allowed for image retention for a minimum of 31 days @ 25fps, compression format H.264, the NVR is to be located within the comms room data cab.

Locations identified.

- 3no. Internal cameras within the Ground Floor level Entrances
- 1no. External camera mounted outside the Main Entrance Doors

Equipment Schedule

1no. Dahua NVR4416

1no. 22" Colour viewing monitor

3no. Internal mounted 4MP Starlight IP d/n POE dome camera

1no. External mounted 4MP Starlight IP d/n V/P POE dome camera

1Lot Cat5 Cable

Commission

Training

• **Grade 2 Wireless Intruder Alarm System**

The system to be installed will be a Texecom Ricochet system control panel, remote wireless keypad, 2 Wireless shock sensors, 1 wireless movement sensors and 2 wireless door contacts. In addition, we would supply 5 alarm proximity setting fobs and a new wireless live bell box on the front of the house.

The following areas will be covered:

Circuit 1: Front Door - (Access)

Circuit 2: Door 2 - (Instant)

Circuit 3: Door 3 - (Instant)

Circuit 4: Rear RH Door - (Instant)

Circuit 5: Rear RH window- (Instant) – Window

Circuit 6: Rear LH window- (Instant) – Window

Circuit 7: Rear LH Door - (Instant)

All the above will detect an opening of more than 100mm with a wireless surface magnetic contact, sending a single back to the main system controller.

Circuit 8: Landing - (Instant) – Rear RH corner

Circuit 9: GF - (Instant) – Rear RH Lobby

Circuit 10: GF - (Instant) – Rear LH Lobby

Circuit 11: GF - (Instant) – Front RH Lobby

Circuit 12: GF - (Instant) – Front LH Lobby

All the above will be installed with a PIR, (this will detect movement in a given area within an unobscured range of 12 meters), mounted at a nominal height of 2.4 meters and a 90-degree angle of view will be a wireless Pet tolerant passive infrared movement sensor.

We have allowed for One self-activating electronic sounder with integral strobe lights and housed within an illuminating polycarbonate cover, sited on the front elevation of the buildings.

Also, One internal speaker adjacent to the control panel.

• **Fire Alarm System**

To supply, install and commission a 2 loop Advanced MX4 fire alarm panel with Apollo XP95 devices & Aspirating System.

Equipment Schedule

1 x Advanced MX4202 Two Loop Fire Panel c/w 2 Loop cards

2 x 12A 12v Yuasa Battery

4 x Apollo Intelligent Input / Output Unit

1 x Apollo XP95 Heat Detector

12 x Apollo XP95 Optical Smoke Detector

10 x Apollo XP95 Integrated Sounder Base with Isolator

1 x Apollo XP95 Sounder Beacon Base with Isolator

2 x Apollo XP95 Standard Base £

5 x Apollo XP95 Manual Call Point Surface with isolator

5 x Apollo New Manual Call Point Hinged Cover

3 x Apollo XP95 Sonos Wall Sounder Red c/w Isolator

1 x 4 Pipe VEP Aspirating panel with FOL Led's (+ the install of up to 50M of pipework, including all bends, glue etc)

1 x Emdene 24v 2A EN54 PSU

2 x 17A 12v Yuasa Battery

The system to be installed using Red FP200 Cable

- **Data Installation**

Supply and install Excel Cat6A cable and connections.

Equipment Schedule

1 x 18U Wall mount data cabinet

2 x Keystone Panels

1 x 7 way power strip

2 x Cable management bars

76 x Cat6A keystone jacks

19 x EuroMod Angled Shutters

19 x White faceplates

1 x Lot Cat6A cable

1 x Lot panel & field labels

Terminate and Fluke test

- **Hand Dryers**

We have noted from the BoQ, there is a requirement for 3 off Hand Dryers, we have allowed for 3 off Dolphin Recessed Hand Dryer BC27-2SCA.

These will require being in-set with in the wall, these works to be carried out by others, we will install and flex back to a control spur unit .

- **Lightning Protection**

This will be installed on our behalf by ***** Limited, who will carry out the supply and installation of the lightning protection system as per tender produced lightning protection system In accordance with the specification and class of protection specified.

- **Earthing & Bonding**

We will be installing a new 10 Way Earth Bar within the plant room and all Necessary Earth Cabling as to comply with the current Wiring Regulations BS767.

- **Car Charging Points**

We have noted there is a requirement for two off Car Charging units, but unfortunately there is no specification, owing to this we have prepared a cost and details of these units we are putting forward for consideration.

We have allowed for the supply and installation of the following units:

1 off EVCO0121 – Securi Charge EV Charge Online - 2x 7.2kW (32A) Type 2 sockets GPRS charging unit.

These are a twin Headed unit, Wall Mounted charger.

We have allowed for this unit to be installed on the wall at the rear of the church.

Cable can be run along side the rear wall lighting feed if required.

The outgoing system will be protected by use of a 63Amp RCD.

We have given you a link to these chargers -

We have included the above within our offer, should you feel you no longer require this option, feel free to delete

- **Testing & Commissioning**

We have allowed for the testing of all Sub-main Cables and all outgoing circuits.

We will supply all relevant Test Certification, along with a New Circuit Charts – these to be mounted in a frame and fix next to each Mains Board.

• **We have also included for the following :**

- O&M's
- Design & Development
- Working Drawings
- Record Drawings
- Preliminaries

The following documentation/information was supplied for the purpose of tender:

General Specifications:

List of Specification will go hear:

Drawings

List of Drawing will go here.

I trust this meets with your approval however if you do have any further queries please do not hesitate to contact me.

Yours sincerely

Name

On Behalf of *****

This is the property of Drawmate Ltd