

St Lawrence Chapel Warminster

East Window Repairs

May to August 2023





Salisbury Cathedral Stained Glass
The Cathedral, Salisbury, Wiltshire, SP1 2EN

glass@salcath.co.uk

Accredited to ICON

www.salisburycathedral.org.uk



Our Ref SK1336
St Lawrence Chapel
c/o Mr Ian Frostick
High Street
Warminster
Wiltshire

20th September 2022

Dear Mr Frostick

Re: St Lawrence Chapel, Warminster

With reference to our site meeting, we would submit our estimate as follows.

East Window

A 19th century (1855) stained glass window comprising of 3 no main lights 3 no tracery panels and 4 no squints. The window depicts, St Stephen, Christ in Glory and St Lawrence, set within canopy work. The maker of this window is not as yet known.

The glazing of this window is found in a generally very poor condition, the lead work being very weak, coupled with loss of ties on the saddle bars. This has become known following recent works to carry out insitu repairs to a small number of broken sections of stained glass. Considerable care was required to ensure that the glazing was not pushed apart while this work was being carried out.

The condition of the painted detail would appear to be reasonable, but this will need to be assessed on the bench prior to any works being carried out, to ensure there is no loss of detail during the restoration process.

There are wire guards as external protection on all of the lights.

This window being positioned on the East Elevation directly adjacent to another building has offered it protection from high winds, but its condition is now such that poor weather is likely to bring about a failure in the lead matrix.

We would suggest that this glazing be removed for re-leading as soon as is practical.

To travel to site and remove 3 no main lights, 3 no tracery panels and 4 no squints from the stonework and temporary glaze with ply boarding.

Return the lights to the workshop, photograph on the light box, take rubbings and mark with CVMA notations.

Strip the glass from the old lead work and re-lead in a new lead calm of the same visible profile as the original. Cracked sections of glass to be edge bonded with a combination of, Silcoset 153, Araldite 20/20 or copper foil strapping, whichever is most appropriate in each case.

The completed lights to be waterproofed using traditional lead light cement. If it is found that the paintwork condition gives cause for concern, the internal surface of the lights to be carefully cemented by hand to ensure no loss of painted detail.

New copper wire ties soldered to the lead work joints to allow fixing to the internal saddle bars.

All to be photographed on the light box prior to re-installation.

All to be returned to site and fixed back into the stonework and finished with a lime based mortar, incorporating new non-ferrous saddle bars painted black.

The external wire guards to be re-instated.

The above for the sum of £11,315.00 excluding VAT

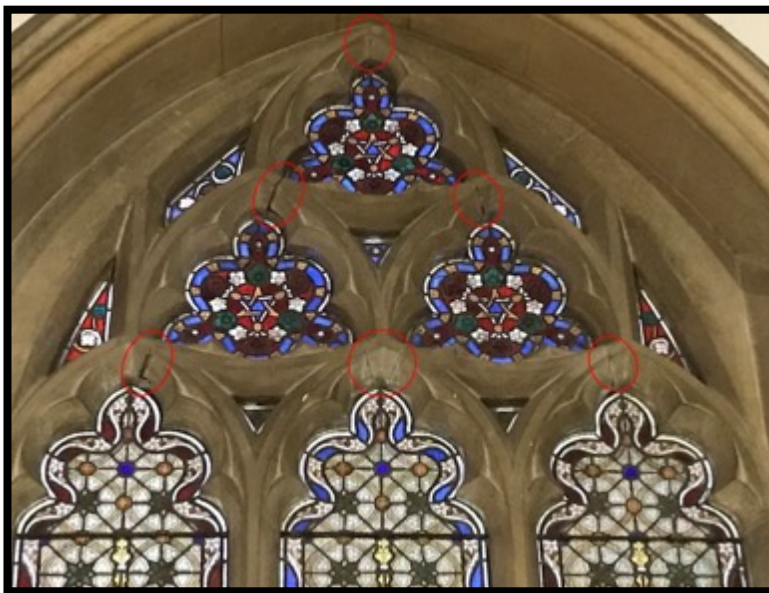
If a conservation report is required there will be an addition to the above cost of **£368.00 excluding VAT**, as this will require a further visit to site to provide the photographs needed to prepare the report and provide additional information.



Salisbury Cathedral Enterprises Ltd. Registered in England no:556116 VAT no: 474461024
Registered Office: The Chapter Office, 6 The Close, Salisbury, Wiltshire, SP1 2EF

Tracery Stonework

It has been noted that some of the stonework joints within the tracery of the window would benefit from being pinned to ensure that they remain in position.



We would offer a cost of **£317.00 excluding VAT** to pin the six joints that have been identified, using stainless steel pins and stone epoxy resin to ensure there is no slipping of the joint. The joints to be finished with a lime based mortar to prevent water ingress.

Note: This work will require a portable tower scaffolding internally and externally while removal and re-instatement works are taking place, internally this may be in place for three days. Externally it will be removed at the end of each working day.

Public access to the window area will be restricted while the works are in progress.

All of the above costs are exclusive of VAT and are based on today's rates for labour and materials. Your attention is drawn to our standard terms and conditions enclosed.

Please contact me if we can be of further assistance.

Yours sincerely

S Kelly

S Kelly ACR AMGP
Manager/Senior Conservator

Glass Paint Deterioration

One of the issues with stained glass of any period can be the deterioration/loss of painted detail from the glass surface. This is most common in 19th century glass but can be found in earlier glass as well and is always an issue that is foremost in the conservator/restorers mind when first assessing a window's condition.

The glass paint in general terms is a ferrous oxide/finely ground glass compound, in the form of a very fine powder. This product can be mixed with almost any medium that will dry onto the glass surface, these are most commonly: water/turps/ascetic acid/lavender oil etc. These allow the powder medium to be applied to the glass with a brush and then dry on to the surface of the glass.

Once the glass paint is on the glass surface it must then be fired in the kiln to make the paint permanent on the glass surface. For this to be carried out correctly and depending on the requirements of the glass paint used, a temperature of between 650-690c must be attained. At these temperatures the glass surface is just becoming molten and the glass paint will fuse with the molten glass surface.

If the correct temperature is not reached the paint cannot fuse with the glass surface and remains on the surface, in a condition that renders it susceptible to deterioration in the presence of moisture (water soluble).



19th century glass



16th century glass

Over time if this glass is in a situation where condensation is an issue, the continuous wetting and drying cycles will slowly remove the painted detail from the glass and at its worst leave no artwork on the glass at all.

It is also possible that 'Borax' has been added to the paint mix before firing. The addition of this material has the effect of appearing to lower the temperature that is required to fire the paint onto the glass surface. Unfortunately what has taken place in the kiln is the Borax has formed a very hard layer on the top of the paint, so that it appears to be fired, but in fact is still under-fired and water soluble.

Little can be done to stop the deterioration of the painted surface if left in a situation where moisture is present, so it is very important to stop or at least limit the amount of time that moisture is on the glass surface.

This can be achieved in various ways, with varying degrees of success, but in general terms in ancient buildings a sympathetic heating system coupled with good ventilation can bring about a marked improvement in controlling moisture within a building.

To introduce air flow over the internal surface of the window by the introduction of low wattage heaters at sill level to cause a rising flow of air travelling up the window can also have the desired effect in some instances.

To introduce a system of vented secondary glazing to the external surface of the glass, is the most effective method of preventing moisture on the internal glass surface and at the same time providing protection for the external surface. There are however, a greater number of issues to be overcome when introducing this method as it will always alter the external view of the window to varying degrees and may also have the same effect internally

Wherever the loss of glass paint is an issue it will always require discussion between Glass Conservator, Architect, Church, Conservation Bodies etc to agree the best course of action in each individual case.

Minutes of the Meeting of Warminster Town Council on Monday 28 th November 2022 at 7pm held at the Civic Centre, Sambourne Road, Warminster, BA12 8LB

Membership:

Cllr Allensby (West)	*	Cllr Keeble (West) Vice Chairman of the Council and Deputy Mayor	*
Cllr Brett (East)	*	Cllr Macdonald (East)	A
Cllr Cooper (Broadway)	A	Cllr Macfarlane (West)	*
Cllr Davis (East)	*	Cllr Parks (North)	*
Cllr Fraser (West)	*	Cllr Robbins (East) Chairman of the Council and Mayor	*
Cllr Fryer (Broadway)	*	Cllr Syme (Broadway)	A
Cllr Jeffries (North)	*		

Key: * Present **A** Apologies **AB** Absent

FC/22/083 Chapel of St Lawrence. The Vice Chairman of the Feoffee's/Trustees of St Lawrence Chapel presented on 7th November 2022, to the members of the Finance and Audit Committee, requesting funding to tackle repairs need to the main East window, and to the clock room floor and the decorative wooden ceiling. The Finance and Audit Committee noted the Feoffee's request and resolved to recommend to Full Council that an award of £24,600 be agreed with an additional £5,400 available for contingency. This would take the maximum allocation to £30,000 Signed..... Date.....

Member resolved to award £24,600 to the repairs with an additional £5,400 available as a contingency. Funding to be allocated from the Community Infrastructure Levy.

Salisbury Cathedral Stained Glass

Finance Department, The Chapter Office, 6 The Close, Salisbury, Wilts, SP1 2EF

Tel. 01722 555132

Email : finance@salcath.co.uk

VAT Number GB 474 4610 42



Invoice

To: St Lawrence Chapel, Warminster c/o Heather Parks 2B Prestbury Drive Warminster BA12 9LB		Delivery Address: St Lawrence Chapel, Warminster c/o Heather Parks 2B Prestbury Drive Warminster BA12 9LB	
Customer Ref: K2218	Account No: 00000518	Invoice No: 0000114828	Date: 08/08/2023

Description	Quantity	Unit Value	Net	VAT	Gross
St Lawrence Chapel, Warminster					
East Window Restoration	1	11315.00	11,315.00	2,263.00	13,578.00
As per our estimate dated 20th September 2022					
Plus, extra to pin stonework joints within the tracery	1	317.00	317.00	63.40	380.40

BACS Payment : Lloyds Bank Salisbury Sort Code 30-97-41 Account No. 00360700 Salisbury Cathedral Enterprises Ltd
SWIFT/BIC: LOYDGB21063 IBAN: GB 40LOYD 30974100360700

Please make cheques payable to Salisbury Cathedral Enterprises Ltd					
-----VAT Analysis-----					
Code %		Net	VAT		
1 20.00 T- standard rate		11632.00	2326.40	Net Total	11632.00
0.00			0.00	VAT	2326.40
Terms 30 days from document date				Total Due	£13958.40

Warminster, St Lawrence Chapel

East Window, Pre-restoration

A 19th century (1855) stained glass window comprising of 3 no main lights 3 no tracery panels and 4 no squints. The window depicts, St Stephen, Christ in Glory and St Lawrence, set within canopy work. The maker of this window is not as yet known.



The glazing of this window is found in a generally very poor condition, the lead work being very weak, coupled with loss of ties on the saddle bars. This has become known following recent works to carry out insitu repairs to a small number of broken sections of stained glass. Considerable care was required to ensure that the glazing was not pushed apart while this work was being carried out.

Removal of this glazing for re-leading should be considered as a priority, to ensure the security of this window.

Post Restoration

All glazing panels were removed from the stonework, to the workshop. Rubbings of each panel taken and marked with CVMA notations, photographs of each panel taken on the light box prior to de-glazing. Wire guards take down and put aside for later re-instatement.



Removal of the glazing from the stonework



Taking rubbing of the panels prior to de-glazing

There is some movement in the tracery stonework that will require pinning to stabilise.

It was noted on removal that there were insufficient support bars to the figurative elements, these would appear to have been removed at some point and copper ties cut off. This is one of the factors that has contributed to the general condition of the glazing, allowing more movement to take place in these areas, the lead work to the figures being weakened to the point, that strong wind or a light impact could easily have resulted in the glazing failing.



Bars have been removed from the figures

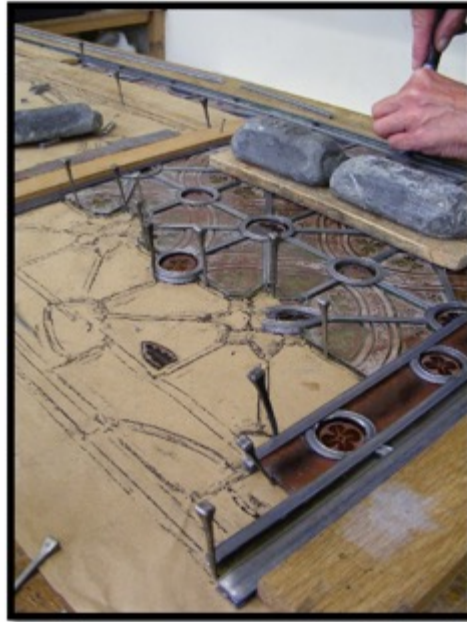
The glass was found to be in a well fired stable condition, with only the leadwork being of real concern. The artist responsible for this window has not been identified, but close inspection of the painted detail reveals someone of considerable talent, especially in the areas of grisaille detail that forms the background to the figures.



Fine qualities of painted detail

The glass has been cleaned with de-ionised water to remove general dirt and grime from the surface and a small number of historic breakages have been edge bonded. Some daylight border sections have been replaced, mostly to the tracery panels following breakages on remove, due to the panels being slightly off the stonework shape with some daylight borders set in the mortar.

All the lights have been re-leaded in a new lead calm of the same visible profile as the original, the completed lights being waterproofed with traditional lead light cement and new copper wire ties soldered to the internal lead work joint to allow fixing to the saddle bars.



Re-leading on the original glass on the bench





Waterproofing the glazing, application, drying, picking to remove the excess



New copper ties solder to lead work joints

Extra bars have been provided in those areas on the figurative element, where they had previously been removed.



Introduction of two extra bars for each figure, to ensure proper support.

The completed panels were photographed on the light box, prior to installation.

All was returned to the church and fixed back into the stonework and finished with a lime-based mortar, incorporating new non-ferrous saddle bars painted black.



Finishing the internal fixing of the glazing



Completed window.



Those areas of movement in the tracery stonework were drilled and pinned using non-ferrous bar, to stabilise.

External wire guards were re-instated and fixed with non-ferrous plug and screw fixings.





Warminster

Before

L/H



Warminster

Before

Centre



Warminster

Before

R/H





Warrinster
Before
R.H. Bottom



Warrinster
Before
Centre Bottom



Warrinster
Before
L.H. Bottom



SITE NAME
WARHINER
St LAWRENCE
ORIENTATION
EAST END

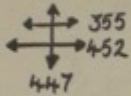
WINDOW PANEL NO:

RH

RUBBING IN/OUT

IN

SIZE:



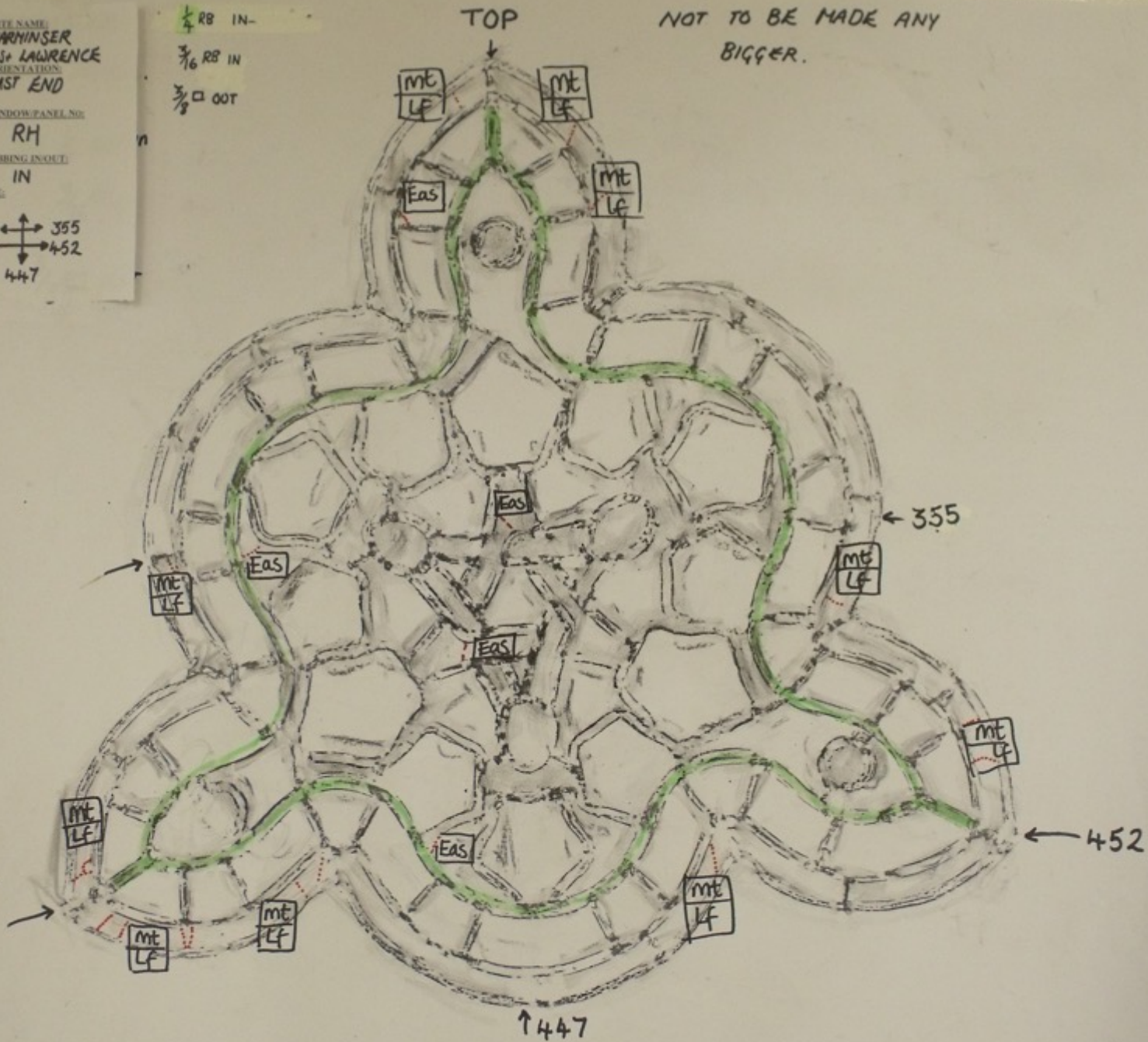
$\frac{1}{4}$ RB IN-

$\frac{7}{16}$ RB IN

$\frac{3}{8}$ □ OUT

TOP

NOT TO BE MADE ANY
BIGGER.

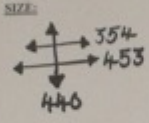


SITE NAME:
WARMINSTER
& LAURENCE

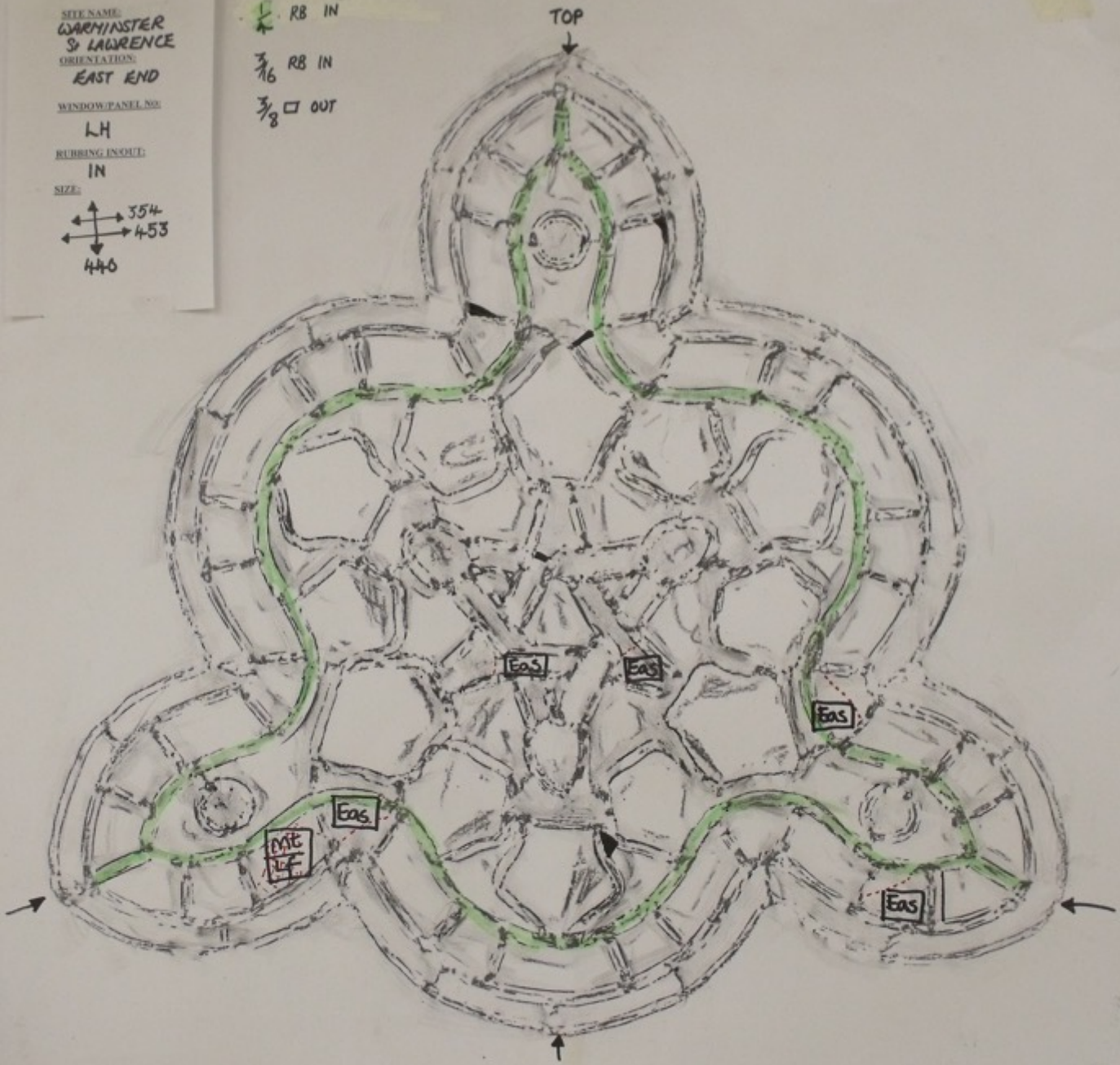
ORIENTATION:
EAST END

WINDOW/PANEL NO:
LH

RUBBING IN/OUT:
IN



$\frac{1}{4}$ RB IN
 $\frac{3}{16}$ RB IN
 $\frac{3}{8}$ □ OUT



SITE NAME:
WARMINSTER
JY LAWRENCE

ORIENTATION:
EAST END

WINDOW/PANEL NO:
CENTRE

RUBBING IN/OUT:
IN

SIZE:
355
450
445

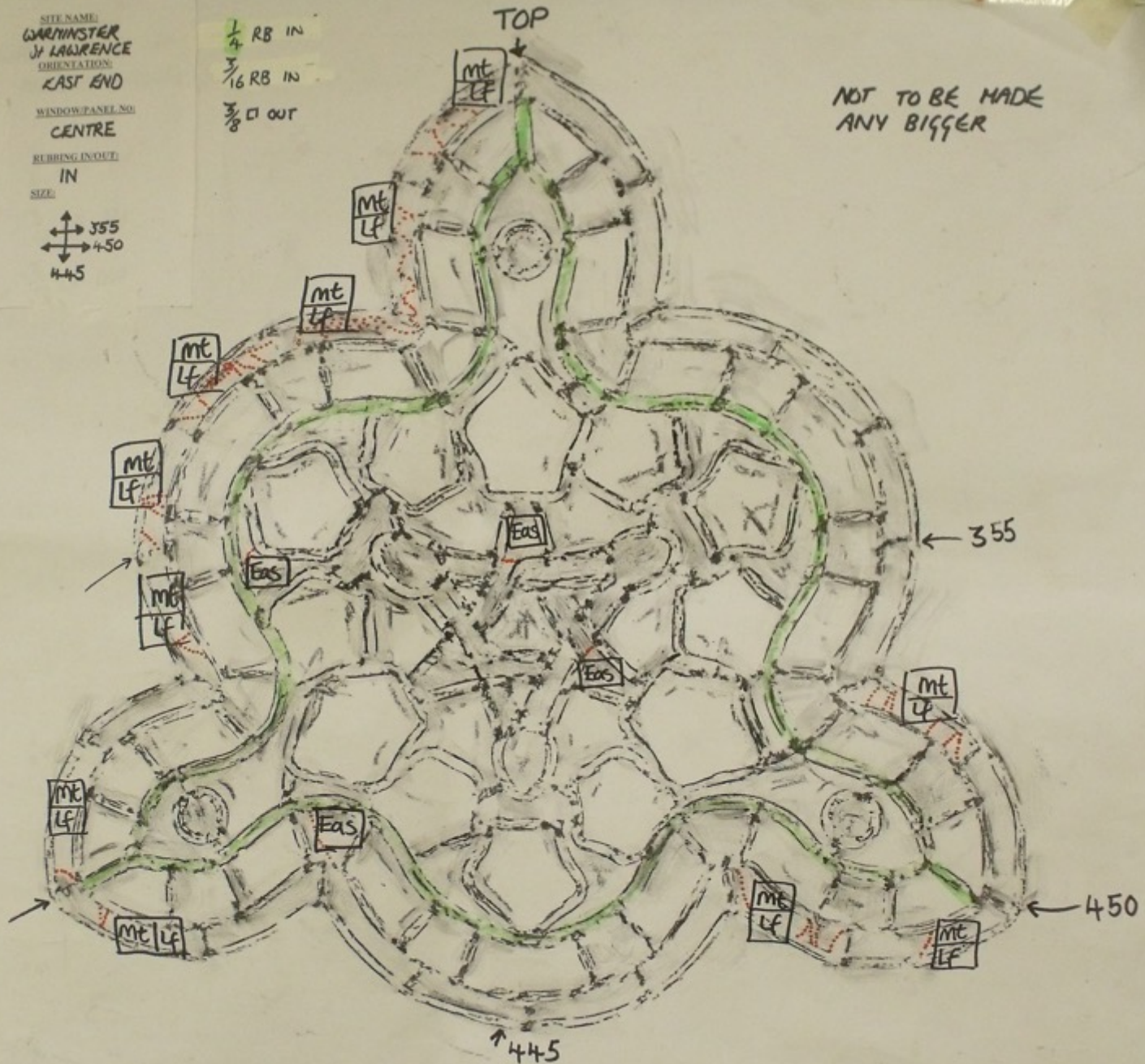
$\frac{1}{4}$ RB IN

$\frac{3}{16}$ RB IN

$\frac{3}{8}$ □ OUT

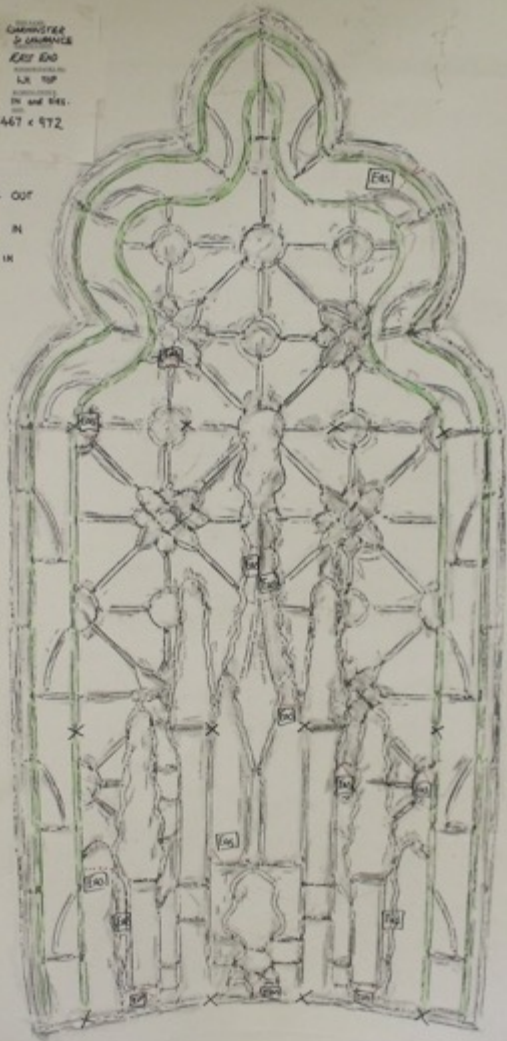
TOP

NOT TO BE MADE
ANY BIGGER



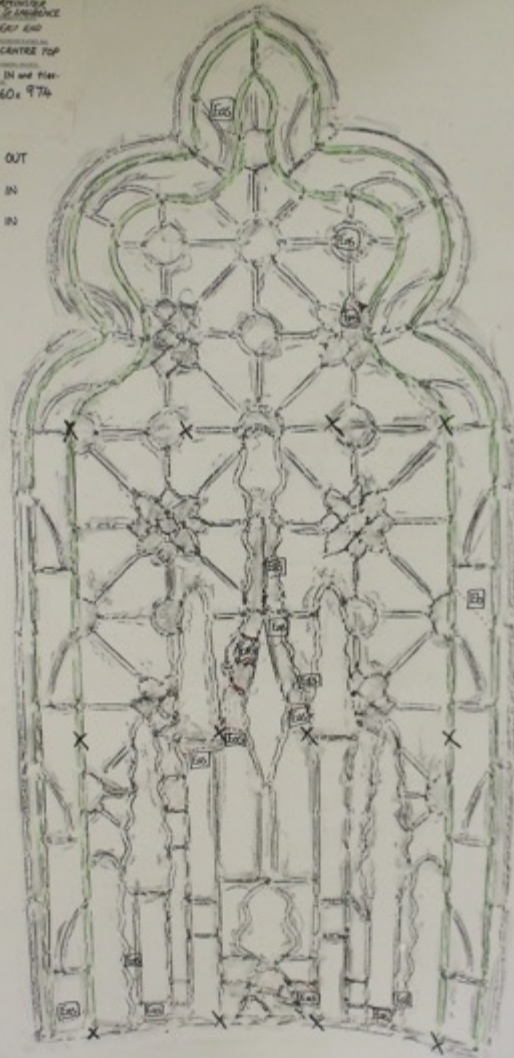
QUADRANT
EAST END
LX TOP
IN AND OUT
467 x 972

OUT
IN
IN



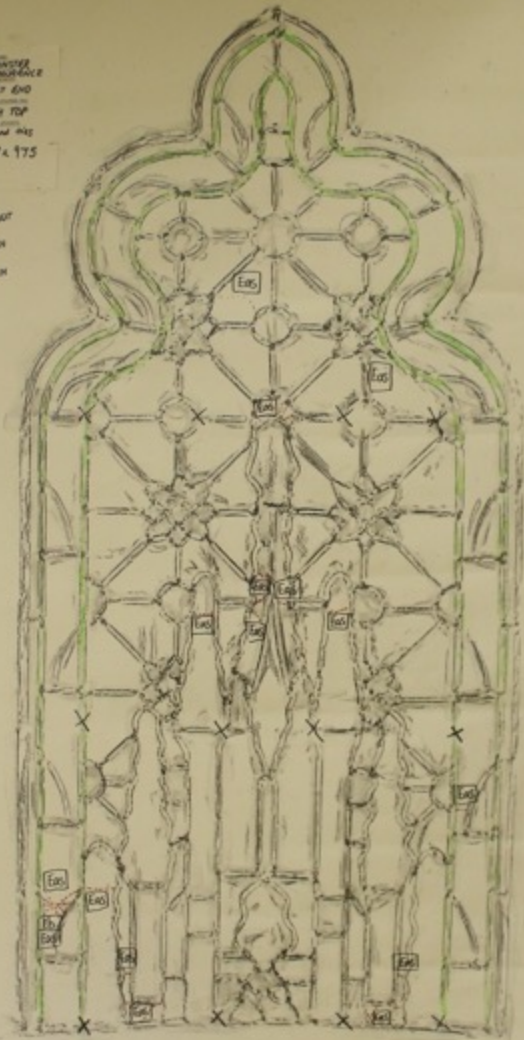
QUADRANT
EAST END
LX TOP
IN AND OUT
460 x 974

OUT
IN
IN



QUADRANT
EAST END
LX TOP
IN AND OUT
467 x 975

OUT
IN
IN





















44



Centre



R/H



University of Toronto
LH

University of Toronto
Centre

University of Toronto
RH







A D D A H G N U S D A T



STAINED GLASS WORKS, 2002

45

45

45
Cathedral
Stained Glass
Workshop

5



















PRAYER BOARD



East Window Repairs

Salisbury Cathedral Glass

The East windows were installed in the 1200's. In recent years damage to the glass was noticed. Salisbury Cathedral Glass undertook a detailed inspection and confirmed that the framework had deteriorated. A "Cathedral Project" of window was possible. If this occurred, the damage to the glass would be extensive and costly.

It was also decided that the individual stain glass panels were removed, taken apart, the glass cleaned & repaired, new leadwork, sills or profiling and the windows reinstalled.

Our next challenge was to quickly obtain financial support for this emergency work.

The Wiltshire Town Council was extremely supportive. We received £60,000 initially with a further £50,000 grant for the window and other essential repairs. Total grant £110,000 plus a £1,500 grant agency.

The windows were removed in May 2019. The expert team at Salisbury Cathedral Glass took 3 months to complete the work and successfully reinstalled the windows at the start of August.



Our Readers' Views

Nesting Time

The Editor, Warminster Journal
Dear Sir,

Please could we remind journal readers and keen gardeners that the RSPB and other wildlife lovers recommend avoiding hedge cutting during the main breeding season for nesting birds, which usually runs throughout March to August each year.

Nesting can be weather dependent and some birds may nest outside this period, so it is important to always check carefully for active nests prior to cutting.

It is an offence under Section 1 of the Wildlife and Countryside Act of 1981 to intentionally take, damage or destroy the nest of any wild bird while it is in use or being built, or to intentionally kill, injure or take chicks or adults, or intentionally take or destroy any eggs.

It is an intentional act, for example, if you or your neighbour know there is an active nest in the hedge and still cut the hedge, damaging or destroying the nest or contents in the process.

Someone is cutting a hedge during this period, ask them and politely mention the risk to birds, and the laws protecting them.

They proceed, and you find there is an active nest at contact the police and give a reference number.

Yours sincerely
Name and address supplied.

Serving Up A Slice Of Summer

The newly revamped tennis courts in the Lake Pleasure Grounds were officially opened by the mayor on Wednesday ready for an ace time for summer.

The courts have been in use for a week now and the feedback has been overwhelmingly positive, according to the town council.

Cutting the ribbon, Warminster mayor Phil Keeble said: "I am delighted to officially open these much anticipated tennis courts. They are a real community asset and it means a lot to see them getting a lot of use already."

With the summer holidays and Wimbledon on the horizon, I think this is a perfect time to get involved with the sport. Warminster has really benefitted from this project and the next step is to try and get as many schools, children and new players involved as possible to elevate its reputation and promote the sense of community it can bring."

The major revamp of the tennis courts and multi-use games area is thanks to the LTA (Lawn Tennis Association) providing a generous sum of money to help promote tennis within local communities. The courts were majority funded by the LTA and the

rest was contributed by the town council's earmarked reserves.

In total, there are five tennis courts and a multi-use games area (MUGA) for public play. The MUGA is free to use at all times, and the tennis courts are £5 per one hour session or £40 for a year's membership, which allows up to four hours a week playtime.

As part of the commitment to making the courts inclusive and available to all the local citizenry, the town council is in ongoing talks to provide certain free access to the courts at specific times. There is also the prospect of the formation of a local Tennis Club.

The mayor added, "We are grateful to everyone for their patience with the project, and we are pleased to see so many people already buying memberships, using the courts and getting the full use out of this state-of-the-art public facility. As the summer begins, we hope to see as many people there as possible."



Warminster mayor Phil Keeble cuts the ribbon and declares the revamped facilities fully open.

Specialist Work On Windows Underway

Chairman of the Feoffees/Trustees, Ian Frostick, and deputy town clerk, Judith Halls, visited Salisbury Cathedral Glass this week to see the progress being made on the St. Lawrence Chapel main east windows.

Senior conservator, Sam Kelly, gave a tour of the workshop, an introduction to the team and an explanation of the process to assess the structure, determine the repairs required and how the windows are dismantled.

This was followed by cleaning of the individual pieces, repairs, installation of new lead, cementing, final polishing and weather proofing.

Ian Frostick said, "The team has made good progress, with one of the main windows almost finished, another panel is well advanced and the third is due to start shortly."

"Sam has been researching the history of the windows and talking with other experts. He knows they were made in the 1850s to a high standard, but at this stage no additional details are available on the specific maker."

"As the windows are taken apart each H section of the old lead strips was carefully inspected to see if the original glass makers have engraved their details. It was fascinating to see the care, skill and quality of the repairs."

Salisbury Cathedral Glass is on track to reinstall the windows Mid-July. The Team has been taking photographs throughout the process to ensure a permanent record is available for the Chapel, the County Listed Building department and for the National Stained Glass Archive.

Ian Frostick added, "The Feoffees and Trustees would like to express their gratitude to Warminster Town Council for the Community Infrastructure Levy grant to support these essential repairs. Judith will update the councillors and wider team on the progress of the work."



Piecing together history



The delicate process to repair the historic windows.



The restoration work is making good progress

Photo Contributions

We are very grateful for photos submitted for publication in the Journal, but please send them as an attachment, not as a jpg or gif, and not embedded within a Word file. Email messages must be no longer than 5Mb. Email: photos@warminsterjournal.co.uk



A special celebratory cake marked the occasion

Warminster and West of England Journal and Wiltshire County Council are typeset and published by Coates & Parker Ltd. Directors and editors R. C. Coates and Mrs. D. J. Watkins. Registered at their registered office, 35 Market Place, Warminster, Wiltshire, telephone 01985 217680, fax 01985 217680. coatesandparker.co.uk coatesandparker.co.uk

REMINDER
Readers are reminded that letters to the editor should be a maximum of 250 words. They must be signed and give a home address (even if it is not for publication).

ISSN 1470323A
9 771470 323005

Archdeacon Alan Jeans Blesses St. Lawrence Chapel Projects

The Feoffees and Trustees of St. Lawrence Chapel were extremely pleased to welcome Archdeacon Alan Jeans to officiate at their Patronal Service on Sunday, celebrating the life of St. Lawrence.

In 1857, after several years of closure due to extensive repairs and servicing of the building work, the Bishop of Salisbury reconsecrated the Chapel. This included the recently installed east windows.

One hundred and sixty years later the stained-glass panels were carefully removed, extensive repairs undertaken and have now been reinstated after three months of expert work by the Salisbury Cathedral Glass team.

The Archdeacon, supported by Rev. Susan Foster blessed the windows on behalf of the current Bishop of Salisbury.

Other items also blessed included: the new Patronal lectern fall made by Chapel Trustee Lesley Fudge; the completed repairs by F. Moulding's carpenters to the tower clock room floor and the paneled ceiling after three of the original 13th century beams failed; the filling in of 39 historic beam holes by F. Moulding's stone masons, these were highlighted by structural engineer Andrew Waring as a longer-term risk to the tower stability; the completion of the Queen Elizabeth II Platinum Jubilee Memorial Garden, including two new benches, these works were supported by the Friends of the Chapel, the Feoffees/Trustees, Watrose, bequests from Stephen Pearson, Marjorie McAdams and her

brother Roderick; extensive repairs and servicing of the Chapel's Grade 1 listed Southmore organ undertaken by Organ Design (Alton) and financed by the Friends of the Chapel.

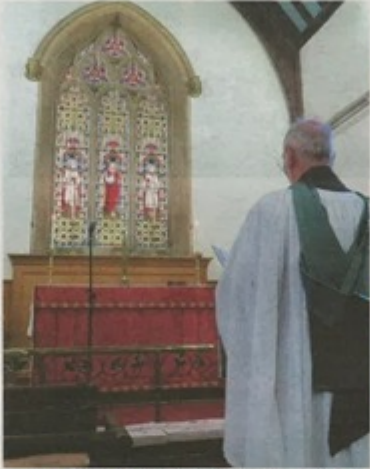
The clock and bell mechanisms were disconnected to prevent damage and carefully moved to allow the essential repair work to the clock room floor. Everything is now back in place and recommissioning work is being undertaken by Feoffee Dan Keene. We hope to have the clock running and bells chiming again in September.

To celebrate the Archdeacon's visit, the flower team arranged displays throughout the Chapel.

Also on show were descriptions and photographs of the various projects.

The Feoffees would like to express their gratitude to Warminster Town Council for the Infrastructure Grant. This was used to support the various surveys, planning approvals, window and tower repairs.

To celebrate the completion of the Chapel projects Heritage Tours will be available in September. This will include trips up the tower to see the clock and bell rooms. No bookings required, just pop in, writes Ian Frostick, chairman of the Feoffees and Trustees of St. Lawrence Chapel.



Archdeacon Alan Jeans blesses the window



A lovely floral display by the Chapel floral team to celebrate the Archdeacon's visit.



Information about the Chapel of St. Lawrence is on Display.



Archdeacon Alan Jeans officiates at the Patronal Service on Sunday, celebrating the life of St. Lawrence.



The Rev. Susan Foster is involved in the blessing of the new Patronal lectern fall made by Chapel Trustee Lesley Fudge.



A further blessing on all the work recently done



OAKWOOD BUILDING SERVICES

- KITCHENS & BATHROOMS
- GARAGE CONVERSIONS
- RENOVATIONS
- LANDSCAPING & DRIVEWAYS
- ROOFING & FLAT ROOFING
- PLASTERING & RENDERING
- FENCING & DECKING & PATIOS
- ALL GENERAL BUILDING WORKS UNDERTAKEN

Call 07377 775706

Small Domestic Building Services Ltd
Fully Insured Company