

High Level Masonry Project  
Tactile safety inspection of high-level fabric

REPORT  
St Bridget's Kirk  
PIC036



October 2022



HISTORIC  
ENVIRONMENT  
SCOTLAND

ÀRAINNEACHD  
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# CONTROL SHEET

## Document Control

Title:	Tactile safety inspection of high-level fabric Report PIC036 St Bridget's Kirk
Authors:	[REDACTED]
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## Version Control

Version	Date	Status	Prepared by	Amendments
V0001	10/10/2022	Draft	[REDACTED]	First draft
V0100	19/12/2022	Approved	[REDACTED]	First issue

Template version: PICxxx-T1C-HLF-REP-YYYYMMDD-X-V0400-Report

# High-Level Tactile Inspection: Report - Introduction



<b>PIC ID # ↓</b>	<b>PIC036</b>	<b>Site name</b>	<b>St Bridget's Kirk</b>		
<b>Inspection start</b>	27/10/2022	<b>Inspection end</b>	01/11/2022	<b>Submission</b>	19/12/2022
<b>Lead inspector</b>	[REDACTED]				
<b>Other inspectors</b>	[REDACTED]				

## Introduction:

The High-Level Fabric Inspection of St Bridget's Kirk ( PIC036) was lead by [REDACTED] (Lead Inspector) and carried out with Inspectors as noted above from 27/10/2022 - 01/11/2022

The HLM Inspection Team assessed 06 zones covering the whole monument, using a range of high level access equipment including MEWP, alloy towers and ladders. Ground mats were used below MEWPs to protect the ground and archaeologically sensitive areas

## HLF Inspection Risk Matrix:

HES-T1C-HLF-RAS-X-X-V0300-RiskMatrix

Consequence \ Probability		1	2	3	4	5
		No injury	Minor injury	Moderate injury	Major injury	Fatal or life-altering injury
5	Fabric fall almost certain	5	10	15	20	25
4	Fabric fall highly likely	4	8	12	16	20
3	Fabric fall likely	3	6	9	12	15
2	Fabric fall unlikely	2	4	6	8	10
1	Fabric fall highly unlikely	1	2	3	4	5

RISK RATING	RISK SCORE RANGE
High	15 - 25
Medium	10 - 14
Low	1 - 9



Re-inspection frequency: (in years) **VISITOR NUMBERS UNKNOWN - TO BE DETERMINED**

		Annual Visitor Numbers				
		up to 5 k	5-20 k	20 - 100 k	100k - 2m	over 2 m
Identified Risk Rating	Low	5 years	5 years	5 years	4 years	4 years
	Medium	3 years	3 years	2.5 years	2 years	2 years
	High	1 year	1 year	1 year	1 year	0.5 year

Link to 3D model:

[For access to additional 3D scan data please contact the Digital Documentation and Innovation Team toolt](#)

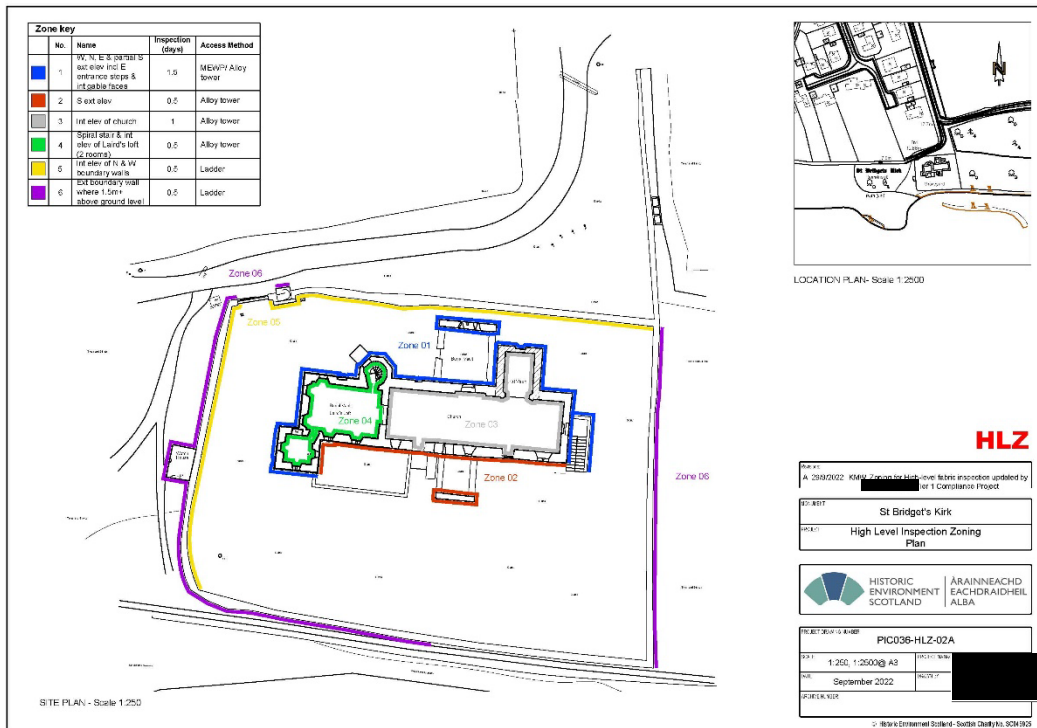
HL Zones:

Zone:	Colour:	Zone Name:
1		West, North, East and partial South external elevations including East entrance steps
2		South external elevation
3		Internal elevations of church
4		Spiral stair and internal elevations of Laird's Loft (2 rooms)
5		Internal elevations of North and West boundary walls
6		External boundary wall where 1.5m + above ground level

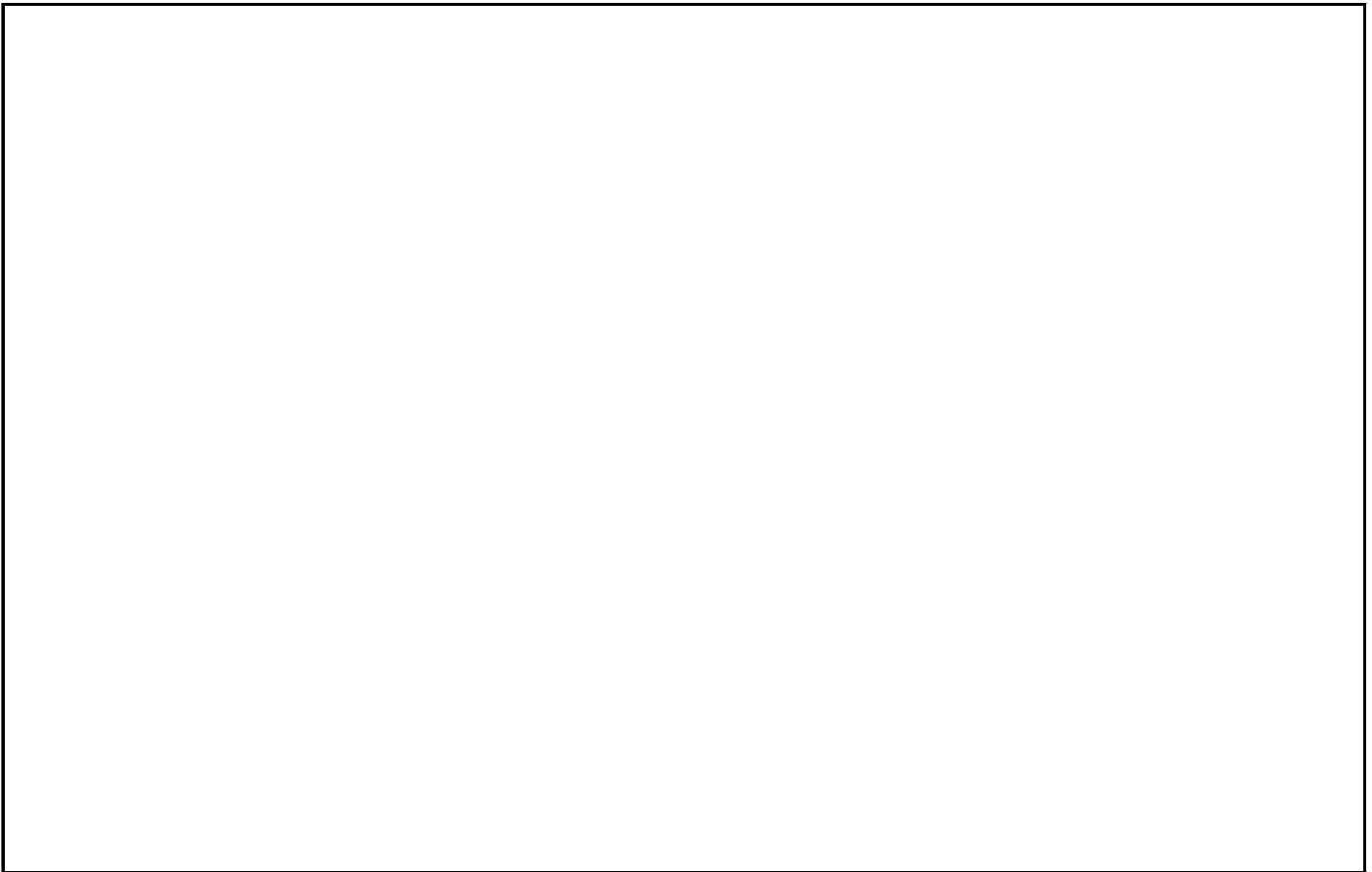
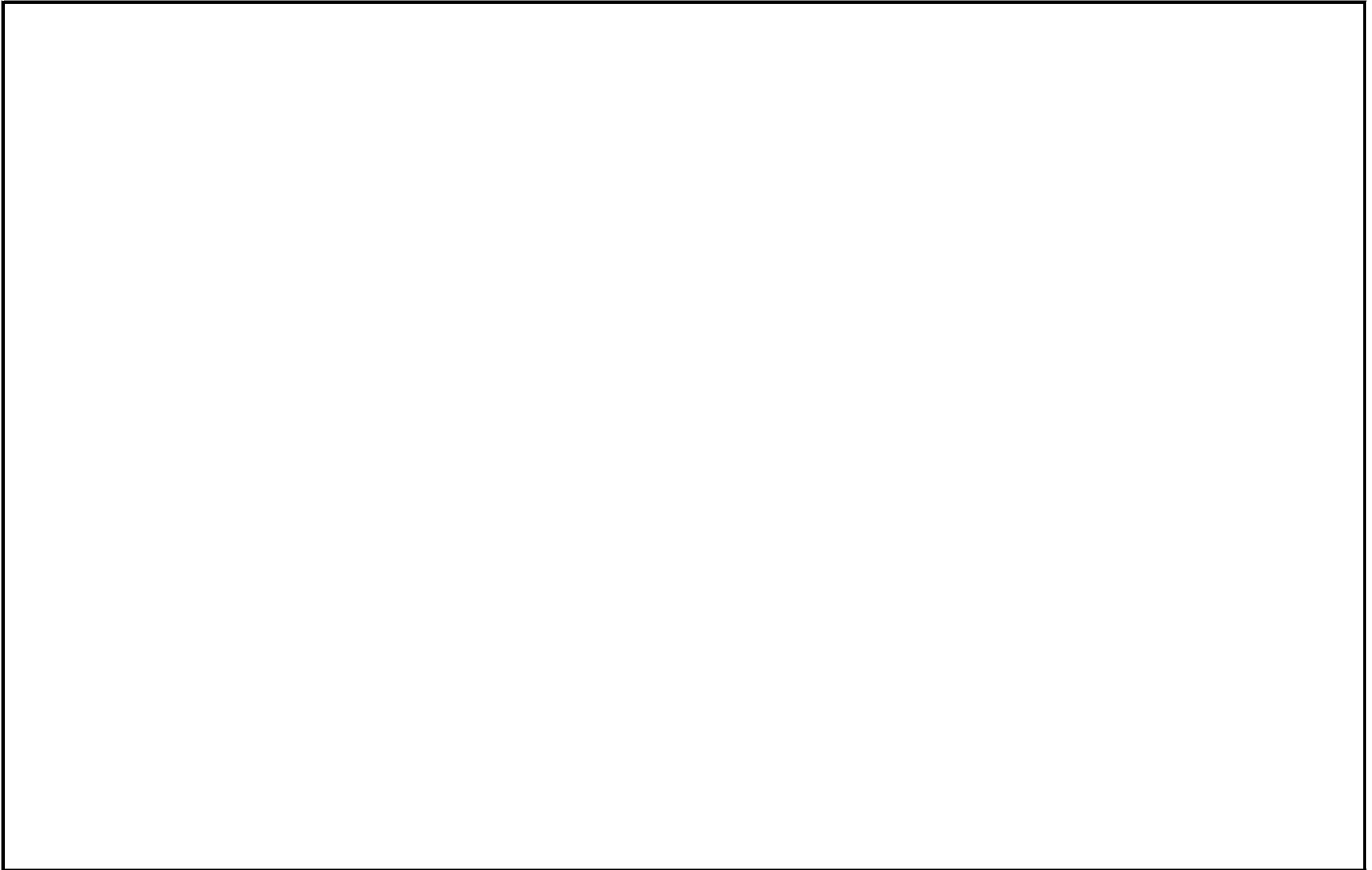
# High-Level Tactile Inspection: Report - High-Level Zoning Drawings



Click on link below image to open drawing in PDF viewer:



[PIC036-HLZ-02A](#)



# High-Level Tactile Inspection: Report - Summary dashboard



PIC ID#	PIC036	Site name	St Bridget's Kirk		
		Submission	19/12/2022	Number of zones	6
Select zone of which data should be displayed ↓			All zones	Number of observations	26

## Identified Risk



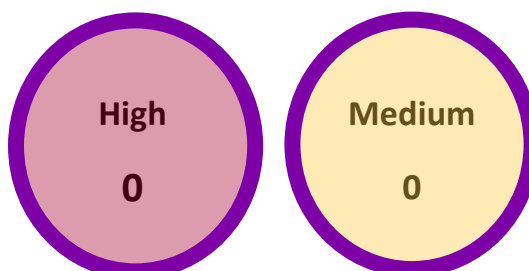
## Residual Risk

After Inspection Action



## Residual Risk

Mitigated with applied Access Restriction in place



## Inspection Action:

Class V Report Fabric detached during tactile inspection	Access Restriction = Risk of fabric falling and causing harm			Monitor Observation / Plan Repairs = No immediate action
	Full site, notifiable	Partial site, notifiable	Partial site, not notifiable	
5	0	0	0	21

Inspection types:	Tactile	26	Visual	0
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## Key comments:

### KEY FINDINGS

- Loose stone on Zone 3- Rebedded by MCU - Class V removed
- Loose Plaster Removed - Applied Conservation Notified

### PREDOMINANT RISKS:-

- Advisory to check gravestone / memorials within PIC area before site opens - outwith HLMI scope of works

-



# High-Level Tactile Inspection: Report - Access Scope



PIC ID #	PIC036	Site name	St Bridget's Kirk
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## Access methods: Select all methods used to conduction inspection ↓

MEWP	Yes	Design Scaffold		Alloy Tower Scaffold	Yes
Rope Access		Steeplejack		Ladder	Yes
Ground	Yes	Binoculars / Photo		UAV	Yes

Other method		If yes, details:	
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Ground protection / tracking required:	Yes
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External Contractor appointed for access requirments:	Yes
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## Inspection info:

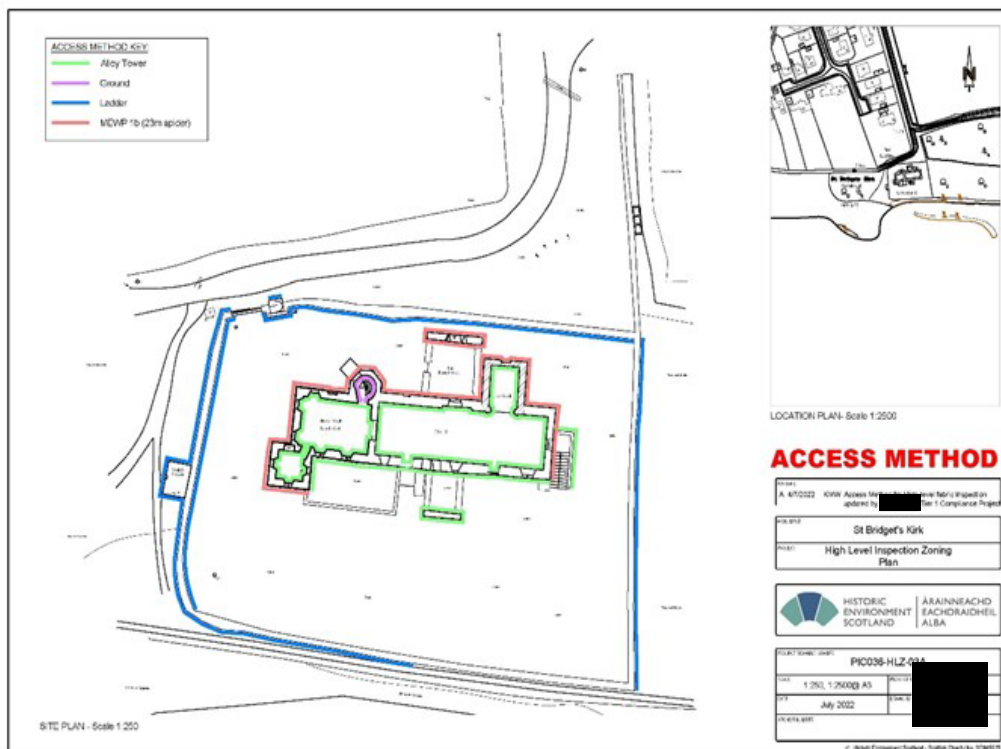
<b>Limitations of inspection:</b>	Access through narrow gate and sloped access path to site. Drone was used and operated by HES trained operatives in advance of inspection taking place.
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<b>Areas not inspected:</b>	All areas inspected
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# High-Level Tactile Inspection: Report - Access Scope



Click on link below image to open drawing in PDF viewer:



[PIC036-HLZ-03A](#)



Click on link below image to open Interactive PDF in PDF viewer. In PDF viewer, the drawing is an interactive PDF, click on the labels to open the relevant OBS form for further information.

**INTERACTIVE PDF**  
Click on label to open linked Excel OBS form

High-Level Zone 01  
St Bridget's Kirk - North Elevation - Rural Vault - Exterior

High-Level Zone 01  
St Bridget's Kirk - North Elevation - Exterior

High-Level Zone 01  
St Bridget's Kirk - West Elevation - Exterior

High-Level Zone 01  
St Bridget's Kirk - South Elevation - Exterior

High-Level Zone 01  
St Bridget's Kirk - East Elevation - Exterior

**KEY**

- Low level of risk - (Green)
- Low level of risk - (Yellow)
- Medium level of risk - (Orange)
- High level of risk - (Red)
- High level of risk - (Dark Red)

**NOTES**

- Identified location of risk
- Refer to observation form for precise location & details of risk & context
- Photos & maps photographs taken during inspection on 27/10/2022 to 28/11/2022

**HIGH-LEVEL FABRIC TACTILE INSPECTION**  
27/10/2022 to 28/11/2022

**SITE PLAN 1:500**

**IDENTIFIED RISK**

**PIC036 St Bridget's Kirk**

High-Level Fabric Tactile Inspection  
Identified Risk - 1 of 10 risk zones (0)

**HISTORIC ENVIRONMENT SCOTLAND**

**PIC036-HLR-Z01**

WFS 3/21

27/10/2022

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[PIC036-HLR-Z01](#)

**INTERACTIVE PDF**  
Click on label to open linked Excel OBS form

No observations found

High-Level Zone 02  
St Bridget's Kirk - South West Elevation - Exterior

**KEY**

- Low level of risk - (Green)
- Low level of risk - (Yellow)
- Medium level of risk - (Orange)
- High level of risk - (Red)
- High level of risk - (Dark Red)

**NOTES**

- Identified location of risk
- Refer to observation form for precise location & details of risk & context
- Photos & maps photographs taken during inspection on 27/10/2022 to 28/11/2022

**HIGH-LEVEL FABRIC TACTILE INSPECTION**  
27/10/2022 to 28/11/2022

**SITE PLAN 1:500**

**IDENTIFIED RISK**

**PIC036 St Bridget's Kirk**

High-Level Fabric Tactile Inspection  
Identified Risk - High-level zone 02

**HISTORIC ENVIRONMENT SCOTLAND**

**PIC036-HLR-Z02**

WFS 3/21

27/10/2022

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[PIC036-HLR-Z02](#)



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**INTERACTIVE PDF**  
Click on label to open linked Excel OBS form

High-Level Zone 03  
St Bridget's Kirk - Church - North Elevation - Interior

High-Level Zone 03  
St Bridget's Kirk - Church - East Elevation - Interior

High-Level Zone 03  
St Bridget's Kirk - Church - South Elevation - Interior

High-Level Zone 03  
St Bridget's Kirk - Church - West Elevation - Interior

**KEY**

- Low level risk level - Medium Observation (M): These are low level risks - fabric movement or minor cracking (low cover/mid risk)
- Medium level risk - High Observation (H): These are medium level risks - fabric movement or minor cracking (mid cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)

**Z02-01**

Notes

- 1. Check the location of this.
- 2. Refer to Observation Form for precise location & details of risk & reference.
- 3. This drawing is prepared to be taken during inspection on 20/10/2022 09:11:22.

**HIGH-LEVEL FABRIC TACTILE INSPECTION**  
27/10/2022 to 31/10/2022

**SITE PLAN 1:500**

**IDENTIFIED RISK**

PIC036 St Bridget's Kirk
High-Level Tactile Survey Inspection
Identified Risk - High-Level Zone 03

HIS/GRG: SKA/NN/BR/03  
ENVIRONMENT: EAC/DRA/DH/EL  
SCOTLAND: ALBA

PIC036-HLR-Z03

DATE: 27/10/2022  
TIME: 09:11:22  
DRAWN BY: [REDACTED]

1: Scale: 1:1000 (A3)

[PIC036-HLR-Z03](#)

**INTERACTIVE PDF**  
Click on label to open linked Excel OBS form

High-Level Zone 04  
St Bridget's Kirk - Laird's Loft - North Elevation - Interior

High-Level Zone 04  
St Bridget's Kirk - Laird's Loft - East Elevation - Interior

High-Level Zone 04  
St Bridget's Kirk - Laird's Loft - South Elevation - Interior

High-Level Zone 04  
St Bridget's Kirk - Laird's Loft - West Elevation - Interior

**KEY**

- Low level risk level - Medium Observation (M): These are low level risks - fabric movement or minor cracking (low cover/mid risk)
- Medium level risk - High Observation (H): These are medium level risks - fabric movement or minor cracking (mid cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)
- High level risk - Very High Observation (VH): These are high level risks - fabric movement or minor cracking (high cover/mid risk)

**Z02-01**

Notes

- 1. Check the location of this.
- 2. Refer to Observation Form for precise location & details of risk & reference.
- 3. This drawing is prepared to be taken during inspection on 20/10/2022 09:11:22.

**HIGH-LEVEL FABRIC TACTILE INSPECTION**  
27/10/2022 to 31/10/2022

**SITE PLAN 1:500**

**IDENTIFIED RISK**

PIC036 St Bridget's Kirk
High-Level Tactile Survey Inspection
Identified Risk - High-Level Zone 04

HIS/GRG: SKA/NN/BR/03  
ENVIRONMENT: EAC/DRA/DH/EL  
SCOTLAND: ALBA

PIC036-HLR-Z04

DATE: 27/10/2022  
TIME: 09:11:22  
DRAWN BY: [REDACTED]

1: Scale: 1:1000 (A3)

[PIC036-HLR-Z04](#)

PIC036-HLM-REP-20221219-T4-V0100-StBridget'sKirk.xlsx

Section 6



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**INTERACTIVE PDF**  
Click on label to open linked Excel OBS form

**Z05-03**



**High-Level Zone 05**  
St Bridget's Kirk - Boundary Walls - North Elevation - Internal

**Z05-02 Z05-01**



**High-Level Zone 03**  
St Bridget's Kirk - Boundary Walls - NorthEast Elevation - Internal

**Z06-01**



**High-Level Zone 06**  
St Bridget's Kirk - Boundary Walls - West Elevation - External

**Z05-01**



**High-Level Zone 06**  
St Bridget's Kirk - Boundary Walls - East Elevation - External

**Z06-02**



**IDENTIFIED RISK**

PROJECT	PIC036 St Bridget's Kirk
TASK	High-Level Tactile Survey Inspection Identified Risk - High-level zone 05 06
CLIENT	HISTORIC ENVIRONMENT SCOTLAND
PROJECT NUMBER	PIC036-HL-2022-01
DATE	NTS 042
DATE	December 2022

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**KEY:**

- Low identified risk zone - Monitor Observation / Plan Repairs
- Low identified risk - fabric removed under Class V label (low residual risk)
- Medium identified risk zone - Monitor Observation / Plan Repairs
- Medium identified risk - Access Restriction (low residual risk)
- High identified risk - fabric removed under Class V label (low residual risk)
- High identified risk - Access Restriction (low residual risk)
- High identified risk - fabric removed under Class V label (low residual risk)
- High identified risk - Access Restriction (low residual risk)

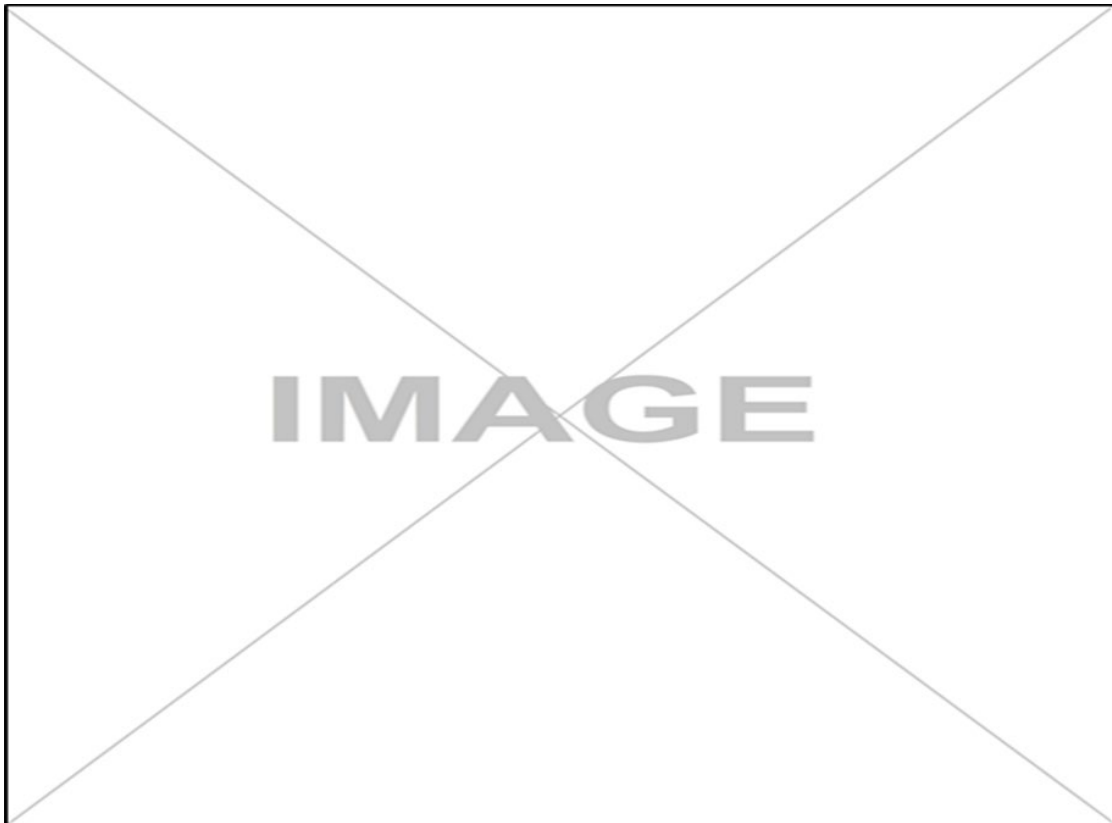
**Labels:**

- Indicates location of Risk
- Refer to Observation Form for precise locations & details of risks & repairs
- Elevations and photographs taken during inspection 27.10.2022-01.11.2022

**Notes:**

- Zone - HL Zone E.g. 05, 06, 07
- 01 = OBS number & p. 01 to 20
- Line label risk colour identifying location Structural fabric

[PIC036-HLR-Z05 06](#)





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**IMAGE**



**IMAGE**



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**IMAGE**



**IMAGE**



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**IMAGE**



**IMAGE**





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**IMAGE**



**IMAGE**



Click on link below image to open Interactive PDF in PDF viewer. In PDF viewer, the drawing is an interactive PDF, click on the labels to open the relevant OBS form for further information.



**IMAGE**



**IMAGE**



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**IMAGE**



**IMAGE**



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**IMAGE**



**IMAGE**



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