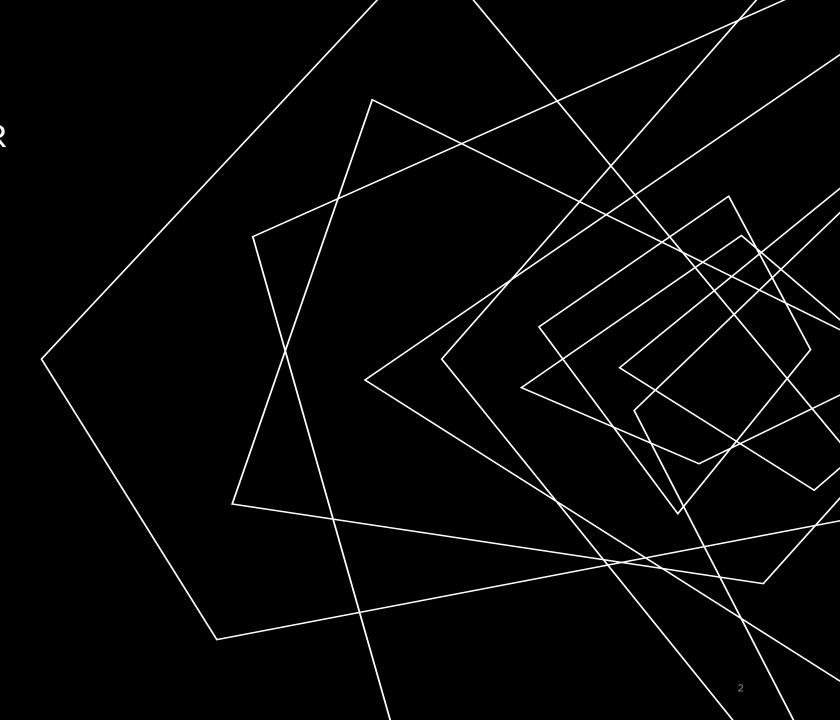
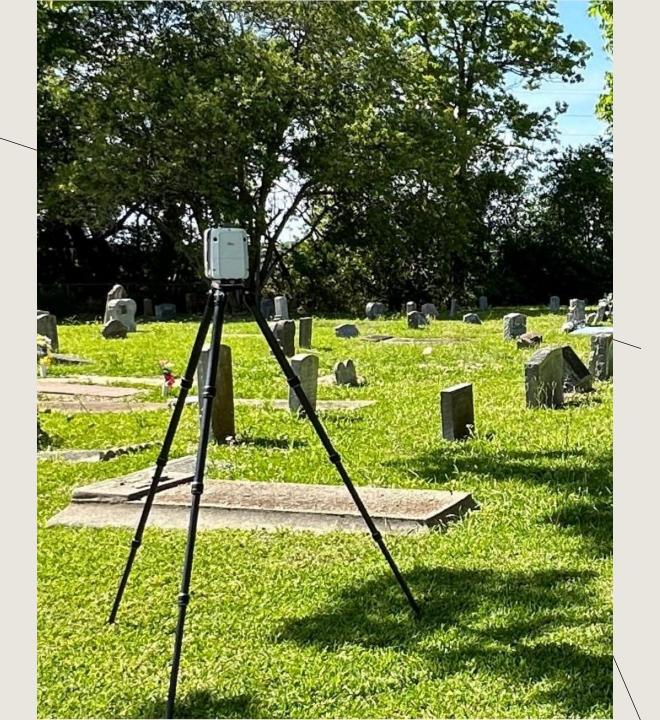


Brent R. Fortenberry Louisiana State University

DIGITAL TOOLS FOR CEMETERY PRESERVATION

- Terrestrial LaserScanning
- Matterport
- Smart Phone
- ESRI ArcGIS

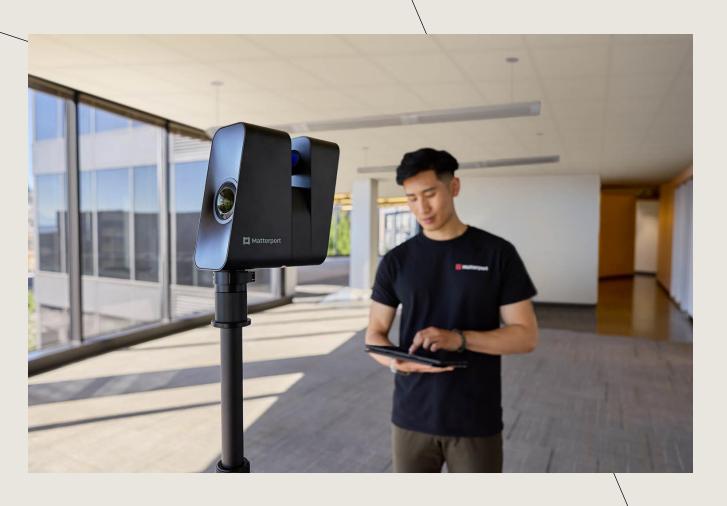




TERRESTRIAL LASER SCANNING







MATTERPORT

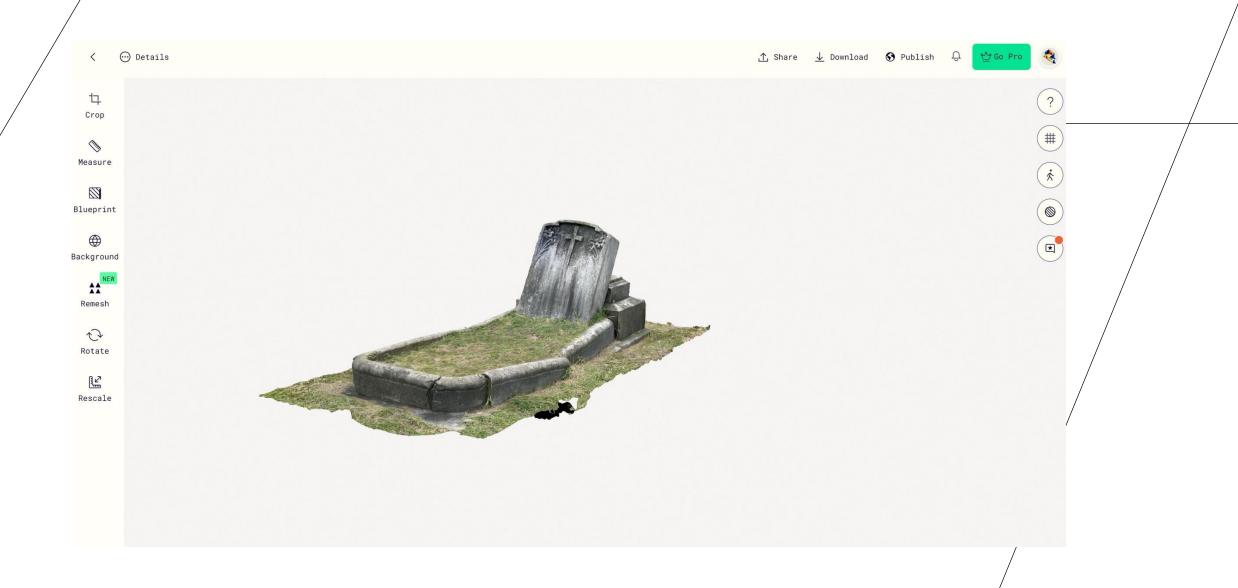


MATTERPORT TOUR

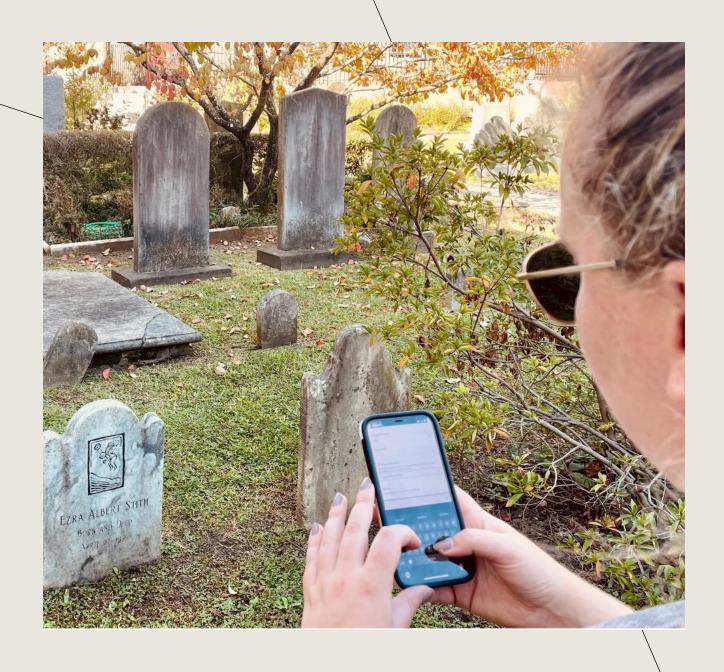
NATIONAL PARK
MAGNOLIA PLANTATION
ENSLAVED DWELLING



SMART PHONE



MAGNOLIA CEMETERY, CHARLEST, ON



GEOSPATIAL SOLUTIONS (ARC-GIS)

Circular Congregational Church - Monument Assessment

U	iculai congregational charen intendi	1161	II A33033IIICIII		
Eva	lluated by:		Date:		
First Name:		Last Name:			
Family Name:					
Plot Number:		Artisan:			
Footstone:		Fencing/Enclosure:			
	Yes		Yes		
	No		No		
Typ	e (Choose One):	Ma	aterials (Choose All That Apply):		
	Tablet/Standing headstone, ground mounted		Brick		
	Tablet/Standing headstone, with base		Marble		
a	Tablet/Standing headstone with border motif, ground mounted		Granite		
			Slate		
	Tablet/Standing headstone with border motif, with base		Sandstone		
	Tablet/headstone, wall mounted (plaques, reinstalled fragments, etc.)		Brownstone		
	Standing monument (obelisks, columns, figures, etc.)		limestone		
	Flat stone, square		Artificial stone: Cast stone/concrete/ composite stone		
	Flat stone, shaped profile		Soapstone		
	Box tomb/vault		Stucco coating		
	Footstone		Blue stone		
	Fencing/enclosure		Grave goods		
	Mausoleum		Other:		
		V. 2000			
Coi	nstruction methods (Choose One):	Sty	le (Choose One):		
	Dry fit		Lettering, hand (include transcriptions)		
	Mortar (note mix, presence of Portland cement, historic		Lettering, machine/modern tools		
_	lime mortar if possible)		Carvings, illustrations, relief work, motifs		
u	Metal pins, cramps, dowels, or fasteners, original (*note type of metal: wrought, cast iron, mild steel, bronze, lead,		Sculpted/ three dimensional work		
	etc.)		Denomination/ belief system specific		
	Metal pins, cramps, dowels, or fasteners, part of repair campaign (*note type of metal: wrought, cast iron, mild steel, bronze, lead, etc.)		Stylistic elements indicative of a time period		
			Folk/vernacular features		

Size:	Prioritization (Choose One):			
☐ Height:	☐ Urgent: within a year			
□ Width:	☐ Moderate: within 5 years			
□ Depth:	☐ Mild: long term monitor			
Site Description:	Date of Next Review:			
Previous repairs (Choose All That Apply):	□ Vegetation			
☐ Replacement pieces, sympathetic (such as a replacement	□ Cracking			
carved stone) Replacement pieces, unsympathetic (cement or materials out of keeping with original fabric.)	□ Spalling			
	☐ Delamination			
□ Sandblasting	□ Efflorescence			
□ Coatings	□ Flaking			
□ Chemical scarring or damage from earlier cleaning				
□ Epoxies, consolidants, glues to re-adhere damaged pieces	Suggested Repair (Choose All That Apply):			
	□ Sod/vegetation removal, landscaping			
rrent Conditions (Choose All That Apply):	□ Cleaning			
Value 1999 19 1979 19 19 19 19 19 19 19 19 19 19 19 19 19	☐ Repairing			
The state of the s	☐ Resetting			
Settling/ out of plumb/ off level Settling/ out of plumb/ off level	☐ Mortar repair/repointing			
Loose stones/out of place stones/ fragments	□ Replacements			
□ Weathering/ erosion of carving/lettering	□ New foundations			
☐ Weathering/erosion of structural elements/stone shapes☐ Rising damp	☐ Stabilizing/mothballing/protective enclosure			
	□ Fragment storage			
□ Soiling	□ Reconstruction/replacement			
Repair Protocol:				

MONUMENT ASSESSMENT PAGE 2 OF 2

SCAN ME



4:20	.III LTE					
Surface Texture						
Rough hewn						
Smooth						
Polished						
Other						
Primary Material(s) Check all that apply Bronze						
Granite						
Limestone						
Marble						
Slate						
Wood						
Brick						

4:22 LTE 🚱

Overall Condition Rating

Poor - requiring immediate stabilization or treatment Fair - expected to require treatment in the next year Good - stable, but could use light treatment Excellent - like new/recently treated

Primary Photo*

Photo of grave marker

Drop image here or select image



Additional Photos

1 Drop image here or select image



Comments

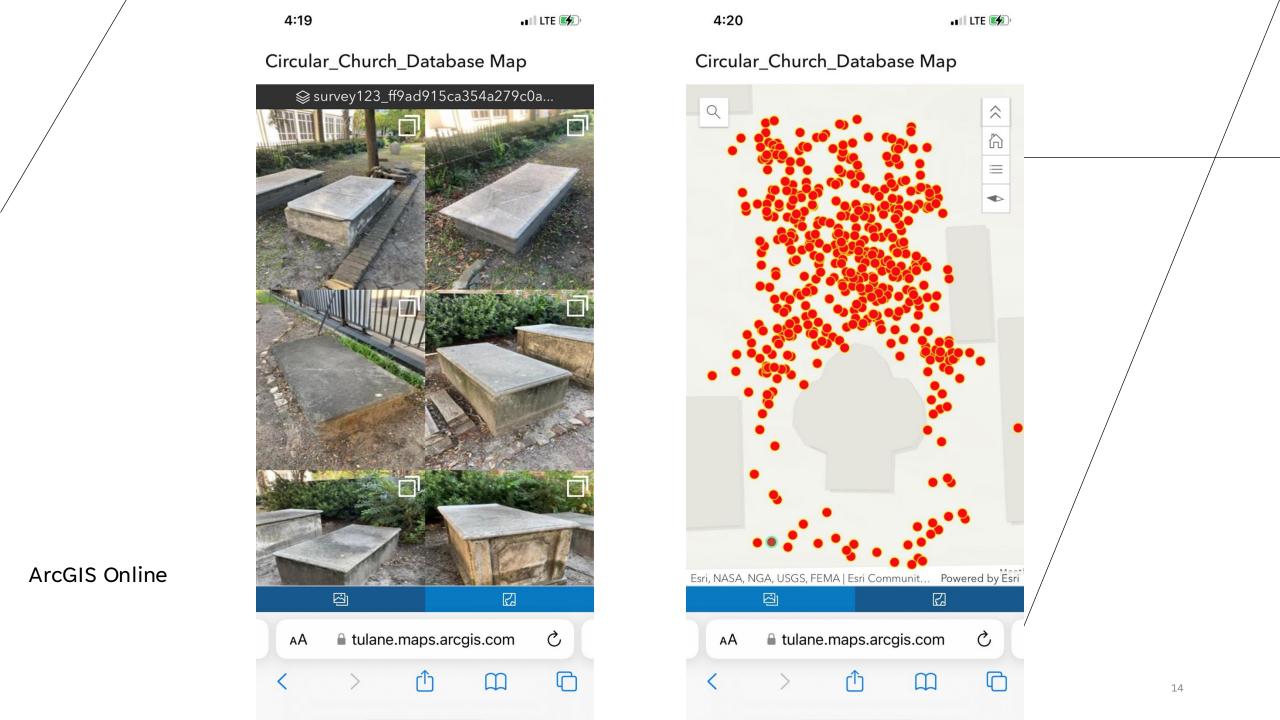
Please note any details, elements, conditions, or additional notations that are relevant to this marker.











COST AND PARTNERSHIPS

	TLS	Matterport	iPhone	ArcGIS
HARDWARE	\$28k-100k	\$6-9k	\$700	N/A
SOFTWARE	Leica Register 360/ AutoDesk Recap	Cloud Platform	Polycam	ArcGIS Online
SOFTWARE COST	\$10k/year	\$660/year	\$7.99/month (free initial trial 7 days)	\$20k/year
PARTNERS	Universities	Real Estate Agents	Personal Device	Universities