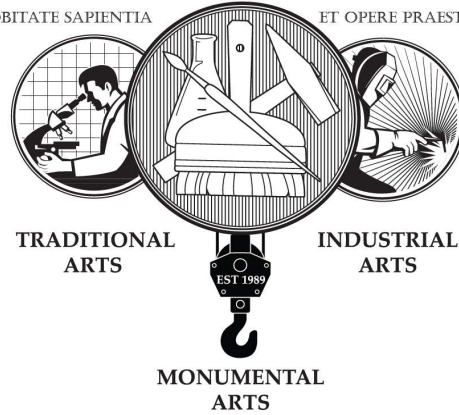


McKay Lodge Fine Arts
 Conservation Laboratory, Inc.
 10915 Pyle Road
 Oberlin, OH 44074
 E-Mail: mckaylodge@gmail.com

MCKAY LODGE CONSERVATION
 LABORATORY

PROBITATE SAPIENTIA ET OPERE PRAESTAMUS



PROPOSAL

DATE PROPOSAL NO.

8/10/2021 **21142**

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Department of Develop Louisville
 Sarah Lindgren
 Public Art Administrator
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TRADITIONAL
 ARTS

INDUSTRIAL
 ARTS

MONUMENTAL
 ARTS

PROJECT NO. **PROJECT RECORD NAME**
21142 21142 Louis VVI Graffiti and Treatment

ARTIST OR PROJECT IDENTIFICATION 1	TITLE OR PROJECT IDENTIFICATION 2	DEADLINE
Marble Louis XVI (Additional)	Graffiti Removal + Treatment	

GOV. CONTRACT NO.	GOV. ORDER/TASK NO.	TASK CITY	TASK STATE
		Louisville	KY

DESCRIPTION	QTY	RATE	TOTAL
PROPOSAL FOR CONSERVATION TREATMENT OF LOUIS XVI STATUE			

Artist: Achille-Joseph-Etienne Valois
 Title: Louis XVI
 Year: 1829
 Material: White Carrara marble

PROJECT PERSONNEL

The lead conservator on this project shall be sculpture conservator - Marcin Pikus, PA-AIC
<https://mckaylodge.com/staff-member/marcin-pikus/>

SCOPE OF SERVICES

In accordance with the recommendations in the Condition Assessment No. 20190, dated July 30, 2021 the services shall include:

1. Overall cleaning.
2. Removal (or reduction) of spray paint damage.
3. Cosmetic touch-ups with silicate paint (if necessary).
4. Repairs to the damaged parts of the sculpture (as specified in the treatment recommendations).

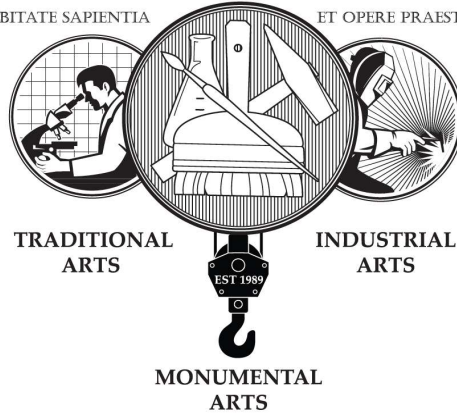
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		Louisville	KY

DESCRIPTION	QTY	RATE	TOTAL
PROPOSED TREATMENT			

The main goal of the proposed treatment shall be the removal (as much as possible) of the spray paint and other graffiti tags from the marble surface as well as general cleaning of the statue. If a complete removal of the paint is unachievable, a light, semi translucent touch-up with silicate paint shall be carried out to provide aesthetically pleasing result.

The secondary goal of the treatment shall be implementing necessary structural and sculptural repairs which shall include all the cracks and losses identified in the description of the statue's condition.

I. CLEANING

To achieve best results, we strongly recommend beginning the paint removal process by utilizing methods which do not involve solvents with the intent of removing the bulk of paint without causing additional staining. Applying paint strippers to the paint layers in their current state may lead to uncontrolled saturating the unaffected adjacent areas with the dissolved paint and making the damage even more widespread. These methods shall be hot water pressure washing and laser cleaning.

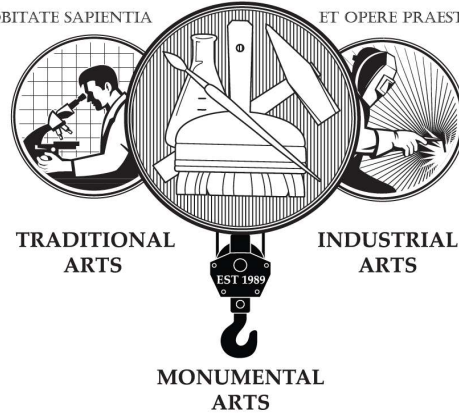
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DESCRIPTION	QTY	RATE	TOTAL
<p>1. HOT WATER PRESSURE WASHER – GENERAL CLEANING AND PAINT REMOVAL</p> <p>High temperature (250 F) and low water pressure may soften and remove some of the paint. This method has been tested in the past by McKay Lodge Laboratory and in some cases turned to be quite successful. The results varied, depending on the type of paint, its thickness, and the character of the substrate. The goal of utilizing hot water pressure washer in this case shall be aimed at relying on the temperature of the stream of water, not the pressure. The pressure shall be kept low (Approximately 1500 PSI) and the distance of the nozzle from the surface shall be kept at the minimum of 12 inches. The second step of the paint removal process shall include general cleaning with detergents, marble cleaning agents and pressurized hot water.</p>			

2. LASER ABLATION – PAINT REMOVAL

Laser technology can be successfully applied in situations where the bright colored substrate (marble) can reflect the laser beam, while the contaminant (in this case - paint) by being darker would absorb the laser pulse and disintegrate by ablation. The CL-500 laser shall be rented and shipped from ADAPT LASER SYSTEMS LLC located in Kansas City. Marcin Pikus's previous experience with laser cleaning, as well as the consultations with ADAPT LASER representatives suggest a great chance of complete or partial removal of the paint from marble. The extent of the spray paint damage will require up to 4 days of labor and one week rental of the laser equipment. The other costs related to this step are: on-site training and instructions, shipping, and fork lift rental for unloading and loading. **IMPORTANT:** Laser requires 480V / 3-phase / 20 A power.

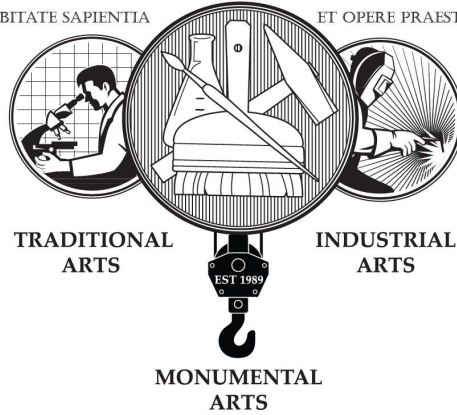
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DESCRIPTION	QTY	RATE	TOTAL
3. PAINT REMOVERS, SOLVENT POULTICES, SAPONIFICATION POULTICES			

The expected result of laser cleaning is a complete or partial removal of the paint layers from the marble surface. It is expected that some deep-seated staining might still be present. The remainder of the paint shall be removed (or minimized) by utilizing paint removers, saponification poultices as well as solvent-based poultices. Poulticing is a proven method of extracting the solubilized substances from porous stone substrates to the poultice while the poultice is drying.

A hot water pressure washer and a steamer shall be utilized for rinsing and additional cleaning as needed.

4. SILICATE PAINT INPAINTING / TOUCH-UPS

In case all paint removal techniques and methods fail to provide aesthetically satisfactory results, a delicate, semi-translucent touch-up with a high-quality mineral coating shall be considered. The coating (Restauro-Lasur manufactured by KEIM) can be color-matched and thinned down to achieve a subtle cloud-like effect to brighten up the stained areas. This solution is at this point an option which may be considered depending on the results of the paint removal. Some "ghosting" (trace amounts of paint saturating the crystalline marble structure) might still be apparent.

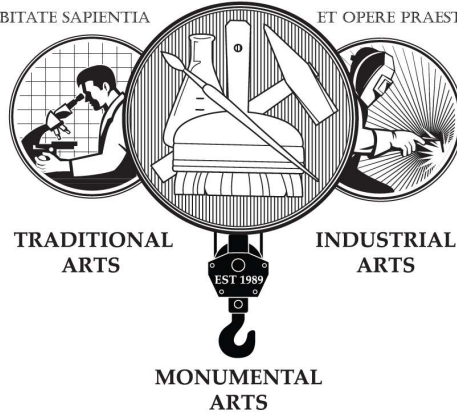
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DESCRIPTION	QTY	RATE	TOTAL
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II. STRUCTURAL REPAIRS

The right hand of the statue as well as the preserved broken-off parts shall be re-attached using high quality, non-yellowing epoxy adhesive HXTAL-NYL 1(HXTAL Adhesive, LLC) or EpoTek 301 (Epoxy Technology, Inc). Missing elements, such as fingers, toes and other carved elements shall be recreated using white Carrara marble, Marble Restoration Mortar Jahn M120 (Cathedral Stone Products) and powdered marble and epoxy-based patching compounds. The areas showing structural cracks shall be reinforced by installing stainless steel pins and epoxy adhesive – Sikadur 32 (SIKA). The cracks and joints shall be injected with an acrylic dispersion RHOPLEX™ B-60 A (DOW) and filled with a custom made, color matched patch.

LABOR

Conservator: procure materials and supplies, make travel and rental arrangements.	24	108.00	2,592.00T
Conservator: prepare, pack and load equipment and materials	16	108.00	1,728.00T
Conservator: 2 roundtrips to Louisville, KY.	32	108.00	3,456.00T
Conservator: General cleaning and initial paint removal utilizing water and steam.	40	108.00	4,320.00T
Conservator: Paint removal using CL-500 laser (includes receiving, unloading laser, hookup, training, loading).	40	108.00	4,320.00T
Conservator: Paint removal with paint removers, solvents, saponification and extraction poultices.	40	108.00	4,320.00T
Conservator: Structural repairs, crack injections, pinning, patching, fills and Dutchman repairs (as specified in the treatment recommendations).	120	108.00	12,960.00T

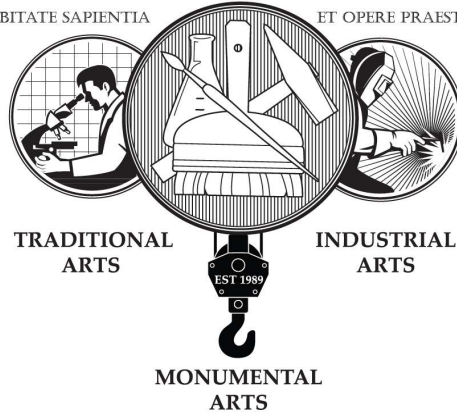
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DESCRIPTION	QTY	RATE	TOTAL
SUBTOTAL LABOR			33,696.00
MATERIALS			
Allowance for materials used in work: marble cleaners (PROSOCO)	1	540.00	540.00T
Allowance for materials used in work: paint removers	1	720.00	720.00T
Allowance for materials used in work: solvents	1	168.00	168.00T
Allowance for materials used in work: poultice materials (ammonia, hydrogen peroxide, ethanol, calcium hypochlorite)	1	420.00	420.00T
Allowance for materials used in work: bonding and pinning / epoxy adhesive SIKADUR 32	1	54.00	54.00T
Allowance for materials used in work: patching / epoxy adhesives: Epotek 301 and Hxtal Nyl 1	1	300.00	300.00T
Allowance for materials used in work: Carrara marble for dutchman repairs	1	422.00	422.00T
Allowance for materials used in work: KEIM silicate paint (Restauro-Lasur) and dilution	1	180.00	180.00T
Allowance for materials used in work: stainless steel pins	1	198.00	198.00T
Allowance for materials used in work: pigments	1	48.00	48.00T
Allowance for materials used in work: consumables and PPE. (Paper towels, brushes, gloves, etc).	1	180.00	180.00T
Allowance for materials used in work: diesel and gasoline for hot water pressure washer	1	25.00	25.00T
SUBTOTAL MATERIALS			3,255.00

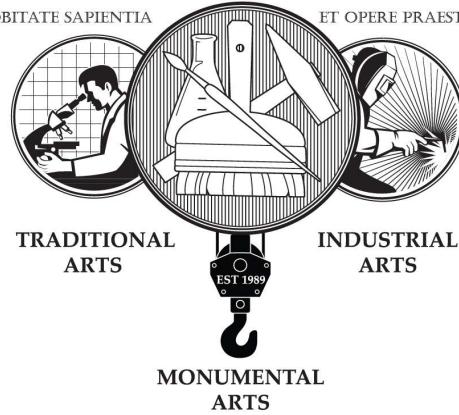
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DESCRIPTION	QTY	RATE	TOTAL
RENTALS			
CL 500 LASER (One week rental)	1	11,500.00	11,500.00
One-day onsite instruction and training by Adapt Laser	1	4,750.00	4,750.00
Laser - shipping from and to Kansas City	1	1,600.00	1,600.00
Forklift (3500 Lbs) / SUNBELT (includes delivery & pickup)	1	1,376.18	1,376.18
SUBTOTAL RENTALS			19,226.18
OTHER COSTS			
Accommodations allowance: Total: 40 nights	40	135.00	5,400.00
Hotel taxes (0.28 x \$5,400)	1	1,512.00	1,512.00
M&I: meals and incidentals	42	65.00	2,730.00
Reimbursement for Truck or Commercial Vehicle Use / Travel plus local transportation (\$0.88 x 1500 miles)	1,500	0.88	1,320.00
SUBMITTALS			
Treatment Reporting. Treatment report. Photographic documentation organization.	40	98.00	3,920.00
Deliveries	1	85.00	85.00

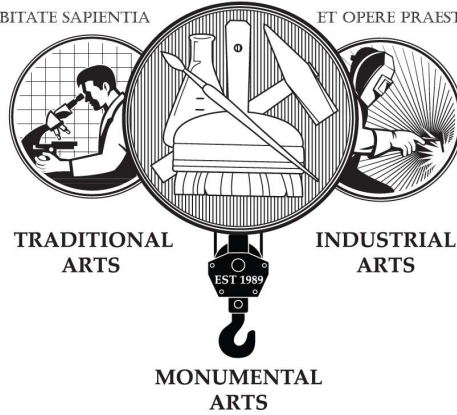
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DESCRIPTION	QTY	RATE	TOTAL
Rounding to the nearest dollar	1	-0.18	-0.18
Fixed on-site structure or other sales tax exempt work		0.00	0.00

MESSAGE:

TOTAL **\$71,144.00**