

**TOWN OF LEXINGTON
COMMUNITY PRESERVATION COMMITTEE**

PROJECT APPLICATION SUMMARY FORM

Project Title: Parsons Gallery Lighting Renovation - Lexington Arts and Crafts Society

APPLICANT INFORMATION

Name of Applicant/Contact Person: Thomas Whelan

Title/Position: Board member, Lexington Arts and Crafts Society; Chair, Photography Guild

Group or Committee Affiliation (if any):
Lexington Arts and Crafts Society

Applicant/Contact Person's address, contact phone number, and email:
Thomas Whelan, 23 Shade Street, Lexington, MA 02421
781 915 9988 (cell) tom@whelanphoto.com (email)

PROJECT INFORMATION

Project Site Address:
130 Waltham Street
Lexington, MA 02421
Project Site Assessors Map/Parcel: Map 49, parcel 16a
Project Site Deed Book/Page: 7970/372
Current Owner: LEXINGTON ARTS & CRAFTS SOCIETY

Purpose (please check all that apply)	
<input type="checkbox"/>	Open Space
<input checked="" type="checkbox"/>	Historic
<input type="checkbox"/>	Recreation
<input type="checkbox"/>	Housing

Brief Project Description:
Replace lighting system in the gallery of the society: remove existing track system and light fixtures, install new track system and fixtures, install new dimmer switches, and rewire as needed

COSTS

Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources (amount and source)
2015			
2016			
2017	36,280	32,000	4,280 from fundraising and operating funds
2018			
2019			
2020			
TOTAL			

Signature of Applicant: Thomas Whelan Date: October 29, 2015

For Community Preservation Committee Use Only:	
Application Received On: _____	Project Presented to CPC on: _____
Reviewed by: _____	Determination: _____

Project Title:

Gallery Lighting Renovation, Lexington Arts and Crafts Society

1. Scope or concept of project:

The Lexington Arts and Crafts Society plans to remove and replace the lighting system in its gallery (the Parsons Gallery) with new lighting fixtures.

The lighting system in the Parsons Gallery was installed 40 years ago. When it was installed, it was the best system for its time, with an expected service life of approximately 20 years. After 40 years of use, the fixtures are worn, some are electrically unsafe, and a number cannot be aimed or adjusted. The track system that provides power to the lights is failing in some locations.

The plan is replace all of the current fixtures and the track system with an LED system designed to deliver light for an art gallery.

2. Project goal and objectives: (Indicate how the Category Specific Criteria for the CPA are met.)

Historic category. The Lexington Arts and Crafts Society (LACS) requests CPA funding under the Historical category. Founded in 1935, LACS was incorporated as a non-profit in 1953. At present, the society is constituted as a 501(c)(3) non-profit, a regional art education center. The society has a long history of contributions to the cultural life of Lexington. The Historic Commission has determined that the society is "significant" in the history, archeology, architecture or culture of the Town of Lexington, as required by the Community Preservation Act. See section 10 for a letter from the Commission, dated October 22, 2015, with this determination.

Project criteria. The proposed project meets the following criteria for the historical category:

1. The lighting renovation will preserve, enhance, restore and/or rehabilitate the society gallery, its primary public space.
2. The lighting renovation will protect, preserve, enhance, restore and/or rehabilitate the historical function of the building (a gallery from its inception).
3. The renovations will directly benefit the public functions of the gallery, such as the high school artist exhibit that is presented yearly in the gallery.

3. Projected action plan and timeline:

The gallery is scheduled for use through mid-July 2016. The renovations will make the gallery unusable while they proceed. The following schedule uses a period when the gallery is not in use:

July 25th – 29, 2016: Remove existing track system, fixtures, check and renovate wiring and switches.

August 1 – 5, 2016: Install new tracks and fixtures

August 8, 2016: Gallery reopens

4. Anticipated project cost: (Provide a budget, with line itemization.)

Item	Quantity	Amount
Edison Price Minimax LED O fixtures	60	27,000
Edison Price lighting track	128 ft	1,280
Replacement switches and wiring		2,000
Labor, remove existing system and install new system		6,000
Total		\$36,280

5. Other funding sources, including private/public/in-kind:

The Society plans a fundraising effort to partially fund the lighting renovations.

6. CPA funding request:

\$32,000

7. Budget justification: (provide an explanation for why each type of expense is needed.)

Lighting fixtures - Most of the cost of the new system is in the fixtures. The fixtures proposed are a commercial type designed for lighting art in galleries. The type of illumination and color characteristics are optimal for art display. Each fixture has an estimated service life of 50,000 hours. The alternatives cannot match the quality of light or service life of these fixtures.

The proposed design increases the number of fixtures from 40 to 60. The added fixtures are on two new tracks in the center of the room that will provide light for metal sculptures and ceramics that may be installed in the middle of the room. See the drawing provided in section 10; arrows indicate the new track locations.

Track system - The track system is the matching track from the manufacturer of the fixture. It is a small part of the cost of the project.

Wiring and switch replacements – Currently gallery lighting has simple on/off switches. The proposal includes an amount for a number of dimmer switches and an allowance for the cost of replacement wiring if it is needed.

Price information - Pricing for the light fixtures and track was provided by Omnilite, Inc., of Burlington, a local representative of Edison Price. The fixture prices are 65% of the retail price, based on a web search for the Edison Price Minimax LED O fixture. The labor estimate is from Fitzmaurice Electric of Arlington.

8. List and describe any comparable projects:

The society has not done anything comparable recently. The project will be supervised by our Building Committee, which includes two architects.

9. Relevance to community: (indicate how project is relevant to the current and/or future needs of Lexington.)

The Parsons Gallery of the Lexington Arts and Crafts Society is a primary resource for the cultural life of Lexington. Improving the gallery lighting will improve the experience of the public for what the gallery offers. The gallery provides the following:

- Exhibits throughout the year from society artists: painting, ceramics, photography, woodworking, weaving, metalwork, polymer clay/beading, and decorative arts.
- Exhibits from artists outside the society, such as the Korean Cultural Society of Boston.
- Juried exhibits of state-wide scope, such as the bi-annual State of Clay exhibit of fine ceramics, sponsored by the society.
- The yearly exhibit of high school artists from Winchester, Burlington, Bedford, Concord, Carlisle, Arlington, and Lexington that the Society hosts. 2015 is the 20th year of this show.
- The gallery is a focal point for Lexington Open Studios, a town-wide art event.
- All exhibits are free and open to the public.

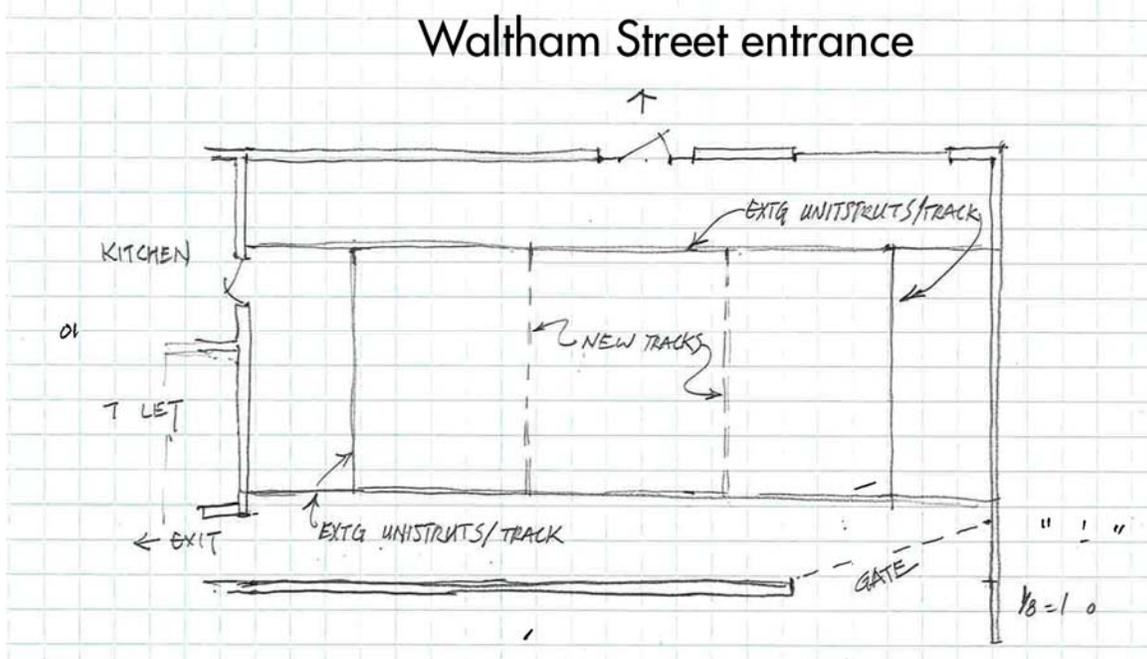
The Lexington Arts and Crafts Society also offers classes and workshops in painting, ceramics, photography, woodworking, weaving, metalwork, polymer clay/beading, and decorative arts. We can speak more about role of the society in Lexington cultural life if we are called to speak to the Community Preservation Committee.

10. Supporting documents: (Provide supporting letters, references, studies, maps, and statistics.)

The supporting documents are the following:

- Drawing of the proposed lighting installation
- Photograph of Parsons Gallery, 130 Waltham Street, Lexington
- Specifications for Edison Price Minimax LED O fixtures
- Letter from the Historical Commission dated October 22, 2015

Drawing of the proposed light installation:



Parsons Gallery



Note the light patterns on the walls with hot spots and very dark areas. Uneven lighting and glare make the artwork difficult to appreciate.

MINIMAX™ LED O

TRACK
FIXTURES
11-100

track mounted LED cross-baffled accent light

FEATURES

MiniMax LED O is a track mounted accent light powered by one of a number of Xicato LED modules – including Artist Series and Vibrant Series modules – all of which are distinguished by extraordinary color consistency (within 1x2-step MacAdam ellipse). See tables on the reverse for wattages and efficacies.

Luminaire may be configured to mount to any of eighteen 20-amp, 120-volt track systems – or – to any of six 277-volt track systems.

Luminaire may be ordered with one of a number of drivers.

A matte black cross-baffle assembly controls surface brightness and reduces spill light. Lens orientation may be adjusted from below by rotating cross-baffles. The cross-baffle assembly is spring mounted for easy removal.

Beam spread is changed by removing the cross-baffle assembly, replacing one 'twist and lock' reflector with another, and re-inserting the cross-baffle assembly. Luminaire is ordered with a single reflector; one or both of the other reflectors may be ordered as accessories.

An on-off rocker switch, mounted flush in the circular top of the luminaire, is included standard on luminaires equipped for 120 volt service only.

A concealed swivel provides 385° horizontal rotation and vertical adjustment from 0° to 90°. The swivel is permanently tensioned, allowing the luminaire to remain fixed at any angle. Luminaire can be locked in place by depressing a hinged ('lever lock') bar so that it lies flush with the top of the housing. Lifting the lever lock frees the swivel.

Luminaire accepts one or two of a number of Optical Accessories, including spread lenses and color filters. Complimentary Beam Smoother is included.

MiniMax luminaires have seamless aluminum housings and cast aluminum tops for lightweight durability and heat dissipation.

APPLICATIONS

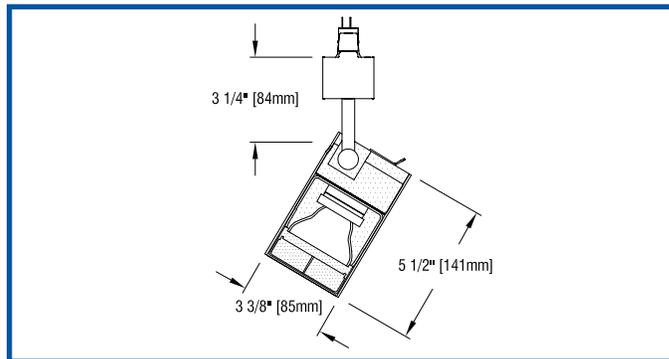


Luminaire is suitable for highlighting vertical or horizontal surfaces, as well as objects in museums, galleries, showrooms, residences, offices and stores.

Luminaire is individually fused and  listed for mounting on Edison Price Lighting 120-volt or 277-volt track.

Fixture Spacing Requirements The track adapter of this fixture is 8 1/8" long. For this reason 1) it cannot be track-mounted closer than 8 3/8" on center and 2) it cannot be used with 3 of our 7 **Unicep** single-fixture track units.

For the outlet box mounted version of this luminaire, see **MiniMax LED O-OBM**.



PRODUCT CODE

For complete product code, list basic unit and select one item from each following box.

Basic UnitMM-XSM2-OX

Driver

dimmable to 10% (see Light Output box below) with electronic low voltage (ELV) dimmer on 120-volt track only; seamless driver case, pictured, measures 6 1/2" x 2" x 1 5/8" DME
 dimmable to 10% (see Light Output box below) with either incandescent or ELV dimmer on 120-volt track only, seamless driver case, pictured, measures 6 1/2" x 2" x 1 5/8" DMP
 dimmable to 1% (see Light Output box below) with a Lutron® incandescent dimmer on 120-volt track only, seamless driver case measures 5 3/4" x 3 5/8" x 1 5/8" LU-DMI

Track Configuration

120-volt track (e.g. SightLine) 2C
 277-volt track (e.g. HighLine) no switch; not dimmable HC

Finish

white: includes white switch WH
 black: includes black switch BL
 Industrial Silver: includes black switch SI
 custom color: specify switch color: white or black CC

Light Output

700L /CRI 97 Artist.....DME (10%) or LU-DMI (1%)...L07A
 1000L /CRI 97 ArtistDMP (10%) or LU-DMI (1%)...L10A
 1000L /CRI 80DMP (10%) or LU-DMI (1%)...L10S
 1500L /CRI 80+ Vibrant...3000K only ..DMP (10%) or LU-DMI (1%)...L15V
 1500L /CRI 80+DMP (10%) or LU-DMI (1%)...L15S
 2100L /CRI 80+DME (10%) or LU-DMI (1%)...L21S

Light Color

2700 K 27K
 3000 K 30K
 3500 K 35K
 4000 K 40K

Beam Spread Reflector (specify one to ship with fixture)

20° spot 20D
 40° flood 40D
 60° wide flood 60D

► For luminaires modified for 50A or 60A track systems, contact factory.

EXTRA REFLECTORS *Specify as separate line items.*

20° spot reflector XSM-REF20
 40° flood reflector XSM-REF40
 60° wide flood reflector XSM-REF60

OPTICAL ACCESSORIES ▼ See next page



41-50 22ND STREET, LIC NY 11101 TEL 718.685.0700 FAX 718.786.8530 www.epl.com

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MiniMax is a pending trademark of Edison Price Lighting.

6:15

OPTICAL ACCESSORIES

Specify as separate line items.

All are 2 3/4" (70mm) dia. Lenses and filters are glass; screens are aluminum.

diffuse glass	DGS/2.75
prismatic lens (Solite)	PLS/2.75
55° spread lens	LENS/2.75
40° x 70° spread lens	LENS/2.75-4070
beam smoother <i>included with fixture</i>	CLR/2.75
color filters	
Daylight Blue	DAY/2.75
Surprise Pink	PNK/2.75
amber	AMB/2.75
blue	BLU/2.75
green	GRN/2.75
red	RED/2.75
33% light reduction screen	SCR33/2.75
50% light reduction screen	SCR50/2.75

PHOTOMETRIC REPORT (tested per IESNA LM-79-2008)

Verification Services Report No. 182709. Original test report furnished upon request.

Luminaire track-mounted LED accent light with a 20° reflector and black cross-baffle (NO LENS)
 Lamp Xicato XSM LED Module, 1500 lumens, 3000K
 Lamp Life rated 50,000 hours based on L70/B50 criteria. LM80 report by LED manufacturer furnished upon request
 Luminaire Light Output 753 lumens

CANDLEPOWER DISTRIBUTION (Candela)

Vertical Angle	Horizontal Angle	
	0	
0	4506	
5	3689	
15	1046	
25	188	
35	14	
45	6	
55	3	
65	1	
75	0	
85	0	
90	0	

LUMINANCE DATA

Vertical Angle	Candelam ²
45	3076
55	1759
65	1014
75	0
85	0

STANDARD DRIVER INFORMATION (UL Class 2, dry and damp location)

Voltage	120	277
Input Watts (700A/1000A/1000/1500/2100 lumens)	16/21/15/23/26	16/21/15/23/26
Input Current (A) (700A/1000A/1000/1500/2100 lumens)	.13/.18/.13/.19/.22	.06/.08/.05/.08/.09
Output Current (mA)	500-1050	500-1050
Min. Power Factor	0.99	0.99
Operating Temperature Range (F)	-13 to 122	-13 to 122

LUMINAIRE LIGHT OUTPUT AND EFFICACY

LED Module Type	Luminaire Light Output	Luminaire Efficacy (lms/watt)	System Wattage
700 Lumens Artist	339*	21	16*
1000 Lumens Artist	429*	20	21*
1000 Lumens standard	474*	32	15
1500 Lumens standard & Vibrant	753	33	23
2100 Lumens standard	956*	37*	26*

*estimated values

LIGHT OUTPUT MULTIPLIER

700 lumens Artist	1000 lumens Artist	1000 lumens	1500 lumens standard & Vibrant	2100 lumens
.45 (estimated)	.57 (estimated)	.63 (estimated)	1	1.27 (estimated)



Town of Lexington
Historical Commission

David Kelland, Chair
Marilyn Fenollosa
Wendall Kalsow
Frank Kern
Sally Zimmerman

1625 Massachusetts Avenue
Lexington, MA 02420
781-862-0500 Ext. 701

October 22, 2015

To Whom it May Concern:

Re : Lexington Arts and Crafts Society Building
130 Waltham Street
Lexington, MA 02421

At a public meeting of the Lexington Historical Commission (LHC) held on October 21, 2015, duly convened and at which a quorum was present and voting, the LHC unanimously determined that the Lexington Arts and Crafts Society Building at 130 Waltham Street, Lexington, MA, is "significant" in the history, archeology, architecture or culture of the Town of Lexington, as such term is used in the definition of "Historic Resources" contained in The Community Preservation Act, Massachusetts General Laws Chapter 44B, Section 2.

Very truly yours,

Marilyn Fenollosa
Acting Chair