

General Notes:

to ordering any equipment.

mounted at varying angles.

escalator manufacturer detail drawings.

construction or handling of these design concepts.

Lettered notes for this sheet only

12'-0" AFF. (Type PA) Typical.

manufacturer detail drawings.

appropriate fixture manufacturer.

dimming circuit (i.e. no common neutrals).

whatsoever, except by the specific and written permission of Available Light.

fixture manufacturer to approve mounting details prior to final order.

rotation occurs when fixtures are mounted at varying angles.

Do not scale electrical drawing for exact location of the lighting fixtures. In general, the architectural reflected ceiling plans indicate the proper location of lighting fixtures.

inform Available Light of all variations from drawings prior to performing the work.

All C-clamp and unistrut mounted light fixtures will employ safety cables supplied by the

A line item price for the cost to provide and install each lighting fixture type is required.

or safety appropriateness and will NOT assume responsibility or liability for improper engineering,

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Lighting Available Light 10 Derby Square # 3 Salem, MA 01970

Acoustic / AV Acentech 33 Moulton Street Cambridge, MA 02138 Tel: 617-499-8000

Elevator Lerch Bates 303 Wyman Street Suite 300 Waltham, MA 02451 Tel: 617-763-5822

Tel: 978-744-6800

20 Jay Street #920 Brooklyn, NY 11201 Tel: 212-242-2253

Envelope

Front

Wind / Air Quality

600 Southgate Drive, Guelph Ontario, Canada N1G Tel: 1-519-823-1311

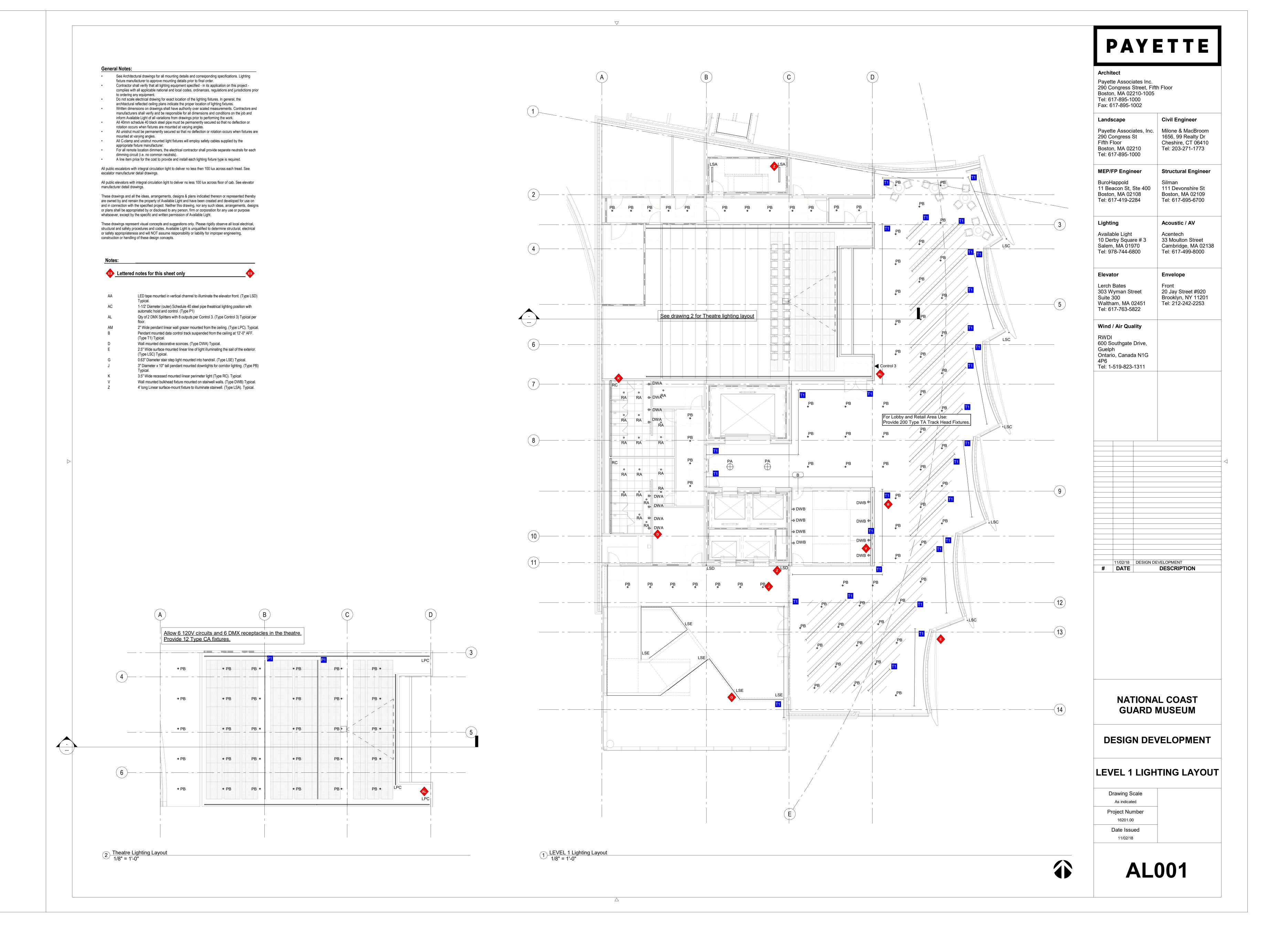
> 11/02/18 DESIGN DEVELOPMENT
> DATE DESCRIPTION # DATE

> > **NATIONAL COAST GUARD MUSEUM**

DESIGN DEVELOPMENT

LEVEL 0 LIGHTING LAYOUT

Project Number Date Issued 11/02/18



General Notes: See Architectural drawings for all mounting details and corresponding specifications. Lighting fixture manufacturer to approve mounting details prior to final order. Contractor shall verify that all lighting equipment specified - in its application on this project complies with all applicable national and local codes, ordinances, regulations and jurisdictions prior to ordering any equipment. Do not scale electrical drawing for exact location of the lighting fixtures. In general, the architectural reflected ceiling plans indicate the proper location of lighting fixtures. Written dimensions on drawings shall have authority over scaled measurements. Contractors and manufacturers shall verify and be responsible for all dimensions and conditions on the job and inform Available Light of all variations from drawings prior to performing the work. All 40mm schedule 40 black steel pipe must be permanently secured so that no deflection or rotation occurs when fixtures are mounted at varying angles. All unistrut must be permanently secured so that no deflection or rotation occurs when fixtures are mounted at varying angles. All C-clamp and unistrut mounted light fixtures will employ safety cables supplied by the appropriate fixture manufacturer. For all remote location dimmers, the electrical contractor shall provide separate neutrals for each dimming circuit (i.e. no common neutrals). A line item price for the cost to provide and install each lighting fixture type is required. All public escalators with integral circulation light to deliver no less then 100 lux across each tread. See escalator manufacturer detail drawings. All public elevators with integral circulation light to deliver no less 100 lux across floor of cab. See elevator manufacturer detail drawings. These drawings and all the ideas, arrangements, designs & plans indicated thereon or represented thereby are owned by and remain the property of Available Light and have been created and developed for use on and in connection with the specified project. Neither this drawing, nor any such ideas, arrangements, designs or plans shall be appropriated by or disclosed to any person, firm or corporation for any use or purpose whatsoever, except by the specific and written permission of Available Light. These drawings represent visual concepts and suggestions only. Please rigidly observe all local electrical, structural and safety procedures and codes. Available Light is unqualified to determine structural, electrical or safety appropriateness and will NOT assume responsibility or liability for improper engineering, construction or handling of these design concepts. Lettered notes for this sheet only 12" Recessed in-grade linear wall washers mounted into floor. (Type GC) Typical. LED tape mounted in vertical channel to illuminate the elevator front. (Type LSD) Surface mounted data control track mounted to unistrut. (Type T1) Typical. Qty of 2 DMX Splitters with 8 outputs per Control 3. (Type Control 3) Typical per Pendant mounted data control track suspended from the ceiling at 12'-0" AFF. Pendant mounted downlights for general illumination mounted at approximately 12'-0" AFF. (Type PA) Typical. Wall mounted decorative sconces. (Type DWA) Typical. 2.5" Wide surface mounted linear line of light illuminating the sail of the exterior. (Type LSC) Typical. 0.63" Diameter stair step light mounted into handrail. (Type LSE) Typical. Wall mounted bulkhead fixture mounted on stairwell walls. (Type DWB) Typical. 4" Diameter surface mounted downlight. (Type PC) Typical. 4' long Linear surface-mount fixture to illuminate stairwell. (Type LSA). Typical. Control 3 0 0 0 RC

1 LEVEL 2 Lighting Layout 1/8" = 1'-0"

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Envelope Elevator Lerch Bates Front 303 Wyman Street 20 Jay Street #920 Brooklyn, NY 11201 Suite 300 Waltham, MA 02451 Tel: 212-242-2253 Tel: 617-763-5822

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11/02/18 DESIGN DEVELOPMENT
DATE DESCRIPTION

DATE

GUARD MUSEUM

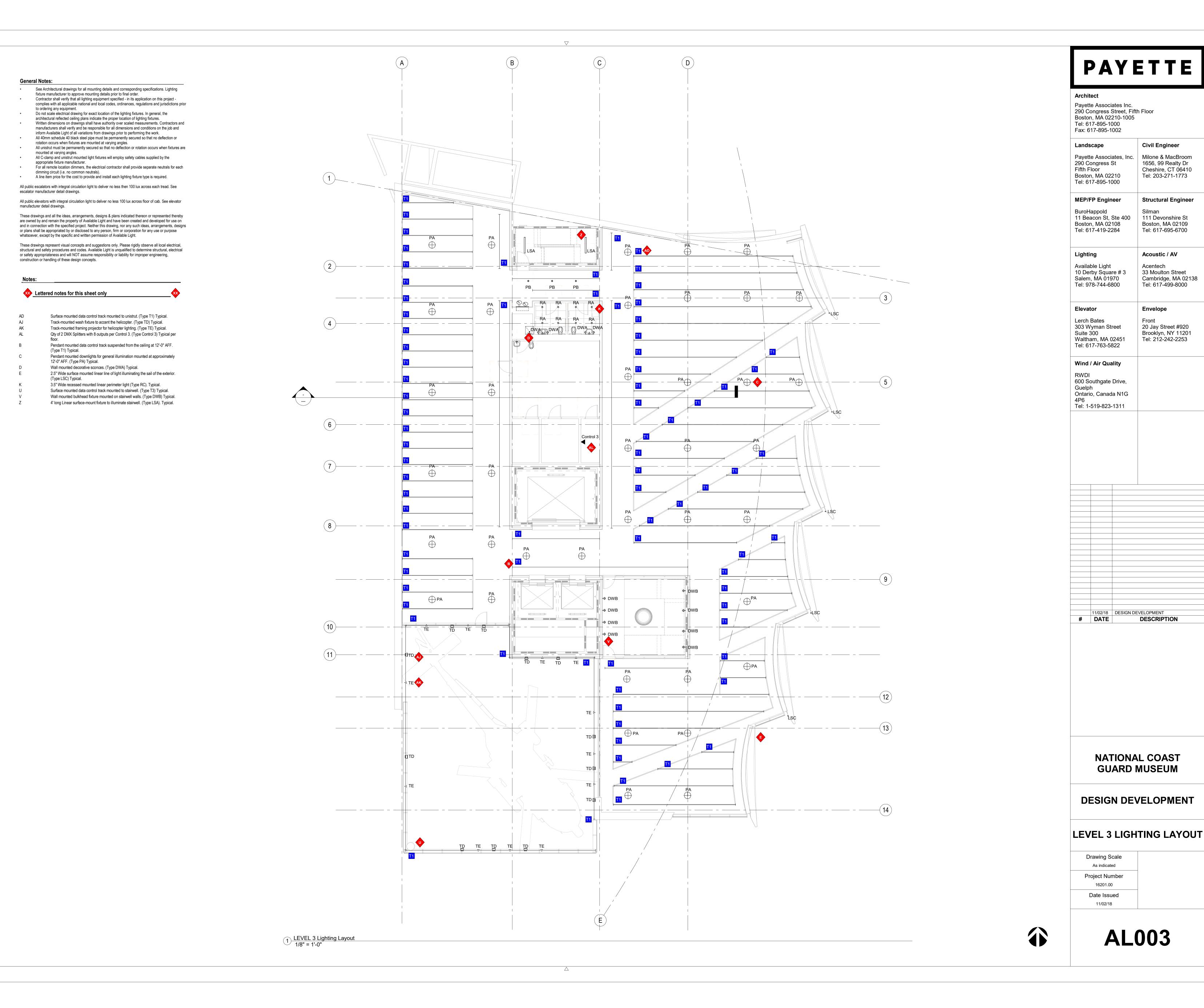
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DESIGN DEVELOPMENT

LEVEL 2 LIGHTING LAYOUT

Drawing Scale Project Number Date Issued





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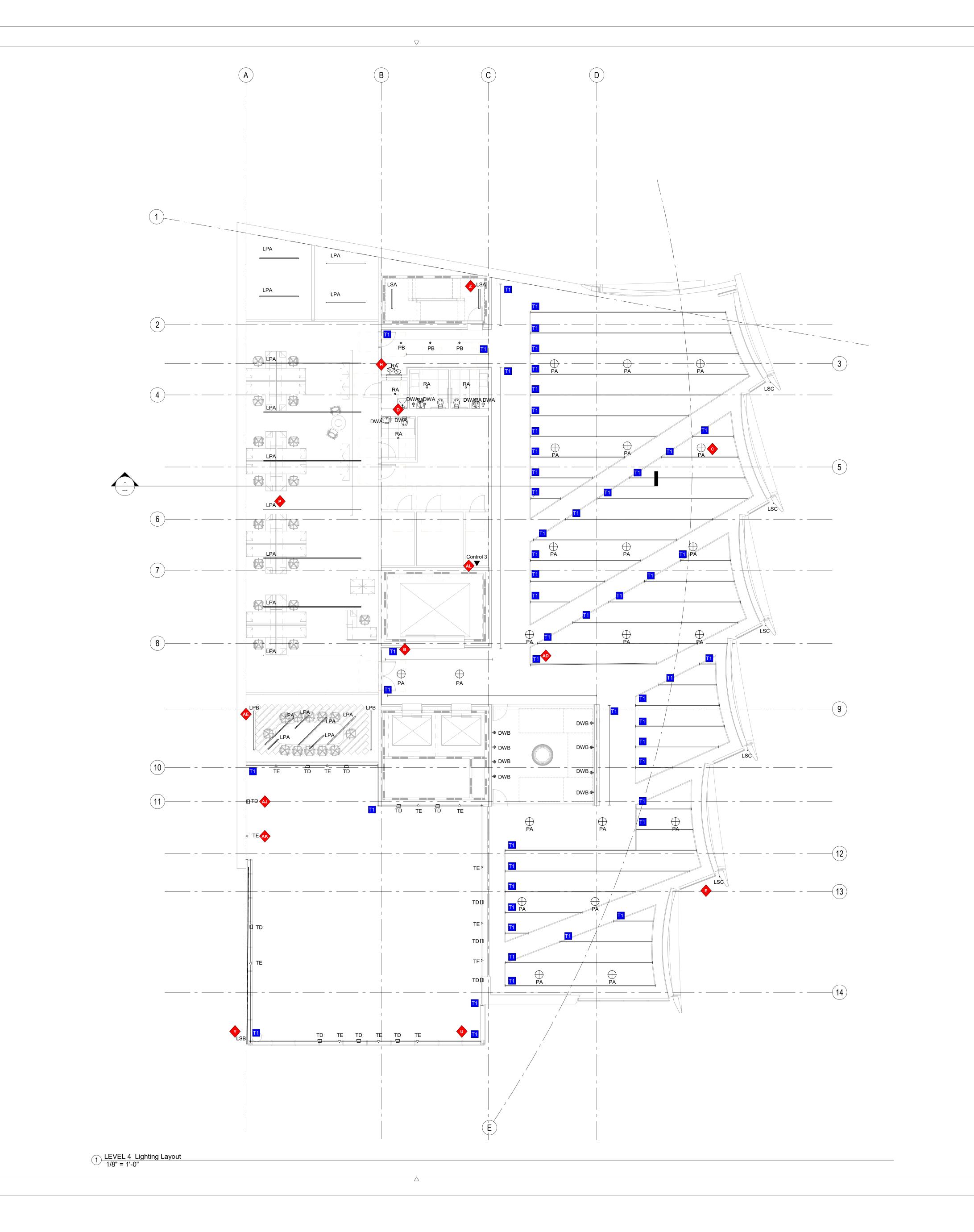
Cambridge, MA 02138

Acentech

Envelope

Front

Silman



General Notes:

to ordering any equipment.

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manufacturer detail drawings.

appropriate fixture manufacturer.

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Lettered notes for this sheet only

(Type T1) Typical.

(Type LSC) Typical.

dimming circuit (i.e. no common neutrals).

See Architectural drawings for all mounting details and corresponding specifications. Lighting

Contractor shall verify that all lighting equipment specified - in its application on this project -

architectural reflected ceiling plans indicate the proper location of lighting fixtures.

inform Available Light of all variations from drawings prior to performing the work.

All unistrut must be permanently secured so that no deflection or rotation occurs when fixtures are

For all remote location dimmers, the electrical contractor shall provide separate neutrals for each

All public escalators with integral circulation light to deliver no less then 100 lux across each tread. See

All public elevators with integral circulation light to deliver no less 100 lux across floor of cab. See elevator

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or plans shall be appropriated by or disclosed to any person, firm or corporation for any use or purpose

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Surface mounted data control track mounted to unistrut. (Type T1) Typical.

Track-mounted wash fixture to accent the helicopter. (Type TD) Typical.

Track-mounted framing projector for helicopter lighting. (Type TE) Typical.

Qty of 2 DMX Splitters with 8 outputs per Control 3. (Type Control 3) Typical per

Pendant mounted data control track suspended from the ceiling at 12'-0" AFF.

Pendant mounted downlights for general illumination mounted at approximately 12'-0" AFF. (Type PA) Typical.

2.5" Wide surface mounted linear line of light illuminating the sail of the exterior.

Surface mounted data control track mounted to stainwell. (Type T3) Typical.

Halo of light to silouette the letters of the museum sign. (Type LSB) Typical. 4' long Linear surface-mount fixture to illuminate stairwell. (Type LSA). Typical.

8' long x 4" wide pendant mount wall washer. (Type LPB) Typical.

Wall mounted decorative sconces. (Type DWA) Typical.

4" Diameter recessed downlight. (Type RA) Typical.

2" Wide linear pendant direct/indirect fixture (Type LPA) Typical.

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and in connection with the specified project. Neither this drawing, nor any such ideas, arrangements, designs

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A line item price for the cost to provide and install each lighting fixture type is required.

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complies with all applicable national and local codes, ordinances, regulations and jurisdictions prior

manufacturers shall verify and be responsible for all dimensions and conditions on the job and

fixture manufacturer to approve mounting details prior to final order.

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Waltham, MA 02451

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Wind / Air Quality

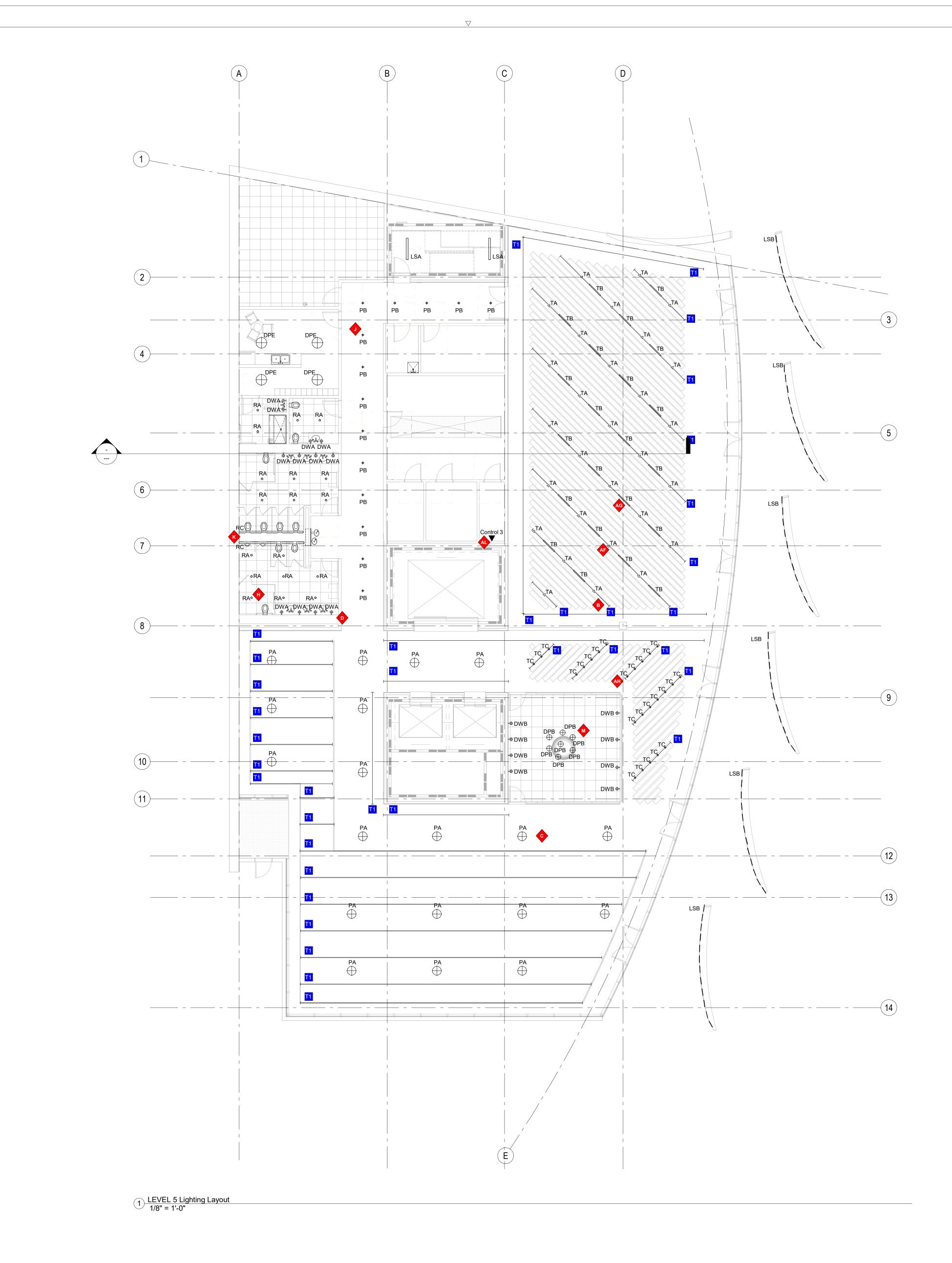
11/02/18 DESIGN DEVELOPMENT
DATE DESCRIPTION # DATE

> **NATIONAL COAST GUARD MUSEUM**

DESIGN DEVELOPMENT

LEVEL 4 LIGHTING LAYOUT

Project Number Date Issued



General Notes:

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mounted at varying angles.

escalator manufacturer detail drawings.

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Lettered notes for this sheet only_

(Type T1) Typical.

manufacturer detail drawings.

appropriate fixture manufacturer.

dimming circuit (i.e. no common neutrals).

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Written dimensions on drawings shall have authority over scaled measurements. Contractors and manufacturers shall verify and be responsible for all dimensions and conditions on the job and

All unistrut must be permanently secured so that no deflection or rotation occurs when fixtures are

For all remote location dimmers, the electrical contractor shall provide separate neutrals for each

All 40mm schedule 40 black steel pipe must be permanently secured so that no deflection or

fixture manufacturer to approve mounting details prior to final order.

rotation occurs when fixtures are mounted at varying angles.

Do not scale electrical drawing for exact location of the lighting fixtures. In general, the
architectural reflected ceiling plans indicate the proper location of lighting fixtures.

All C-clamp and unistrut mounted light fixtures will employ safety cables supplied by the

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All public escalators with integral circulation light to deliver no less then 100 lux across each tread. See

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Track-mounted adjustable accent fixture. (Type TA) Typical.

Track-mounted decorative pendant fixture. (Type TC) Typical.

Qty of 2 DMX Splitters with 8 outputs per Control 3. (Type Control 3) Typical per

Pendant mounted data control track suspended from the ceiling at 12'-0" AFF.

Pendant mounted downlights for general illumination mounted at approximately 12'-0" AFF. (Type PA) Typical.

3" Diameter x 10" tall pendant mounted downlights for corridor lighting. (Type PB)

3.5" Wide recessed mounted linear perimeter light (Type RC). Typical.

Track-mounted linear downlight fixture. (Type TB) Typical.

Wall mounted decorative sconces. (Type DWA) Typical. 4" Diameter recessed downlight. (Type RA) Typical.

Decorative pendant light fixture. (Type DPB)

inform Available Light of all variations from drawings prior to performing the work.

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Lighting	Acoustic / AV
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Elevator	Envelope
Lerch Bates 303 Wyman Street	Front 20 Jay Street #920

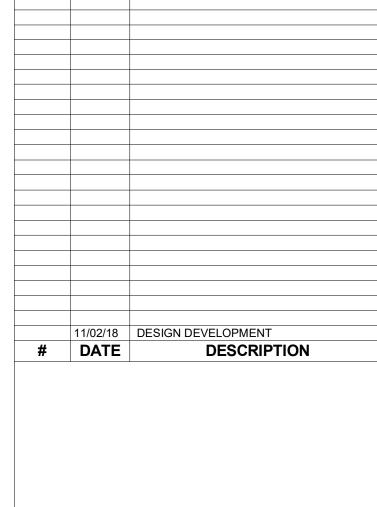
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Waltham, MA 02451

Suite 300



NATIONAL COAST GUARD MUSEUM

DESIGN DEVELOPMENT

LEVEL 5 LIGHTING LAYOUT

Drawing Scale As indicated
Project Number
16201.00
Date Issued
11/02/18

General Notes

- See Architectural drawings for all mounting details and corresponding specifications. Lighting fixture manufacturer to
- approve mounting details prior to final order.
 Contractor shall verify that all lighting equipment specified in its application on this project complies with all applicable national and local codes, ordinances, regulations and jurisdictions prior to
- application on this project compiles with all applicable national and local codes, ordinances, regulations and jurisdictions prior to ordering any equipment.
 Do not scale electrical drawing for exact location of the lighting fixtures. In general, the architectural reflected ceiling plans
- indicate the proper location of lighting fixtures.
 Written dimensions on drawings shall have authority over scaled measurements. Contractors and manufacturers shall verify and be responsible for all dimensions and conditions on the job and inform Available Light of all variations from drawings prior to
- performing the work.
 All 1-1/2" schedule 40 black steel pipe must be permanently secured so that no deflection or rotation occurs when fixtures are mounted at varying angles.
 All unistrut must be permanently secured so that no deflection or
- rotation occurs when fixtures are mounted at varying angles.
 All C-clamp and unistrut mounted light fixtures will employ safety cables supplied by the appropriate fixture manufacturer.
 For all remote location dimmers, the electrical contractor shall
- provide separate neutrals for each dimming circuit (i.e. no common neutrals).
 A line item price for the cost to provide and install each lighting fixture type is required.

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Reference Notes (Specific to this page only)

A 16' tall column fixtures with asymmetric optics (Type SD) Typical.

20" L x 9" W x 20" H fixture mounts to 16' tall fence post. Slip-fit mounting to 3" OD tenon fitting (Type SE) Typical.

6-1/2" Diameter x 40" Tall bollard fixture (Type SB)

Linear LED tape in channel with lens under bench (Type SLA) Typical.



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11/02/18 DESIGN DEVELOPMENT

DATE DESCRIPTION

NATIONAL COAST GUARD MUSEUM

DESIGN DEVELOPMENT

SITE LIGHTING LAYOUT

Drawing Scale

As indicated

Project Number

16201.00

Date Issued

11/02/18



General Notes

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A line item price for the cost to provide and install each lighting

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Control Notes

The lighting installation requires the services of an experienced Systems Integrator (S.I.) that possesses a minimum 5 years experience working as a lighting systems integrator. An S.I. and all related services shall be included by each bidding contractor.

At a minimum, the S.I. must demonstrate proficiency in the following: A) Theatrical control systems (specifically, the system specified on

C) Theatrical lighting industry control protocols, including but not limited to: DMX, sACN, UDP, ArtNET, RDM, 0-10V control, SMPTE.

B) Engineering and implementing DMX and Ethernet based data

MIDI, and ETCNet.

D) Interfaces between lighting control systems (specifically, the system specified on this project) and show control systems (such as Medialon, AMX, etc.), including but not limited to: network interfaces, serial interfaces, and contact closures (see item #5 below).

E) Theatrical and architectural lighting fixtures.

F) Mounting and installation of lighting fixtures and appurtenances. G) Coordination of fixture installation with other vendors.

H) Power Supply and accessory compatibility.

J) Expert-level lighting programmers (see item #9 below).

I) Experienced lighting technicians to aim and focus light fixtures (see item #8 below).

Systems Integrator shall engineer and provide a complete working system based on the design requirements of Available Light, including but not limited to: power and data distribution to DMX data controlled fixtures; interfaces between lighting control and show control systems; and control rack requirements.

The Systems Integrator (S.I.) shall provide all necessary cables, adapters, splitters, power supplies, mounting hardware, etc. necessary to constitute a complete flexible working system. The S.I. shall assume that all clamp mounted hardware has the potential to move several feet in any direction during the aim and focus session that shall occur at the tail end of the project installation phase.

Prior to Available Light arriving onsite for aim and focus, the Systems Integrator shall verify, in writing, that the lighting system is 100% functional from computer control channel to light fixture and

that all multi-attribute luminaires are fully functional. Systems Integrator to coordinate control of show lighting and control of work lights with Electrical Engineer to assure a unified, cohesive

interface approved by the client. Control System overview: To trigger lighting cues, the Lighting Control System shall receive commands from the Show Control System (by the A/V Integrator). Protocols may include RS-232, RS485, UDP, SMPTE, or Contact Closures. System Integrator shall supply all cables, interfaces, converters, adapters, power supplies, etc. as necessary, to receive commands from the Show Control System and play cues in synchronization with the A/V media. Sync tolerance shall be 1/30 of a second or greater. System Integrator shall coordinate with the A/V Integrator on protocols to be used, with approval of Available Light.

Aim and focus crew shall be experienced with the specified lighting fixtures, including but not limited to: safety mechanisms; shutters; gobos and related accessories; beam focus; inserting color media, spread lenses, and diffusion or frost; and how to lock fixtures in both pan and tilt directions. As aiming and focus is completed, crews are responsible for tightening all locking set screws, handles, bolts, etc. to ensure fixture focus is secure. For spaces affected by daylight, aim and focus shall be carried out after dark at the direction of Available Light.

required for focus upon completion of final design documentation.

For budgeting purposes, assume two aim and focus teams working concurrently, with 2 technicians per crew. An aim and focus day shall be 10 hours, not including meal breaks. Crew shall be available for up to 3 days on or over one trip for aim and focus with

Contractor / Base Building Contractor / Systems Integrator shall provide a professional Lighting Systems Programmer(s) who is an an expert in programming the specified lighting control system. The Lighting Systems Programmer must be approved by Available Light.

Demonstrated experience must include: multiple cue lists; multipart and overlapping light cues, discrete luminaire attribute timings, marking of automated fixtures; setting intensity levels; setting additional luminaire attributes, including color, beam shape, beam size, gobo, etc.; color mixing with multiple sources types, including CMY, RGB, RGBW, RGBAW, etc and color spaces (HSI, RGB, descrete emitters); recording cues, cue timing; creating events (ie time based, SMPTE, and astronomical); show file organization. creating and managing digital end-user interfaces in lighting control software as required by the project; coordinating triggers with Show Control (see item #5 above), and configuring DMX and Ethernet

The Lighting Systems Programmer shall be available for up to 2 days on or over 1 trip for programming with Available Light. Lighting Systems Programmer must be on site at the same time the AV Integrator's Show Control Programmer is on site to coordinate triggers for media synchronization, start of day, end of day, housekeeping, etc. Both A/V Show Control Programmer and Lighting Programmer must be on site when the client with approval authority is on site to approve all programming.

Additionally, programmer to be onsite for up to 2 days on or over 1 trips for aim and focus sessions.

Systems Integrator shall provide qualified technicians for setup and servicing of the automated luminaires specified on this project. Skills include but are not limited to: DMX addressing; installing gobos; service and repair of internal modules, including iris, prisms, shutters, gobo wheels, etc.; adjusting mechanical limits; and replacing power supplies.

Recommended Systems Integrators:

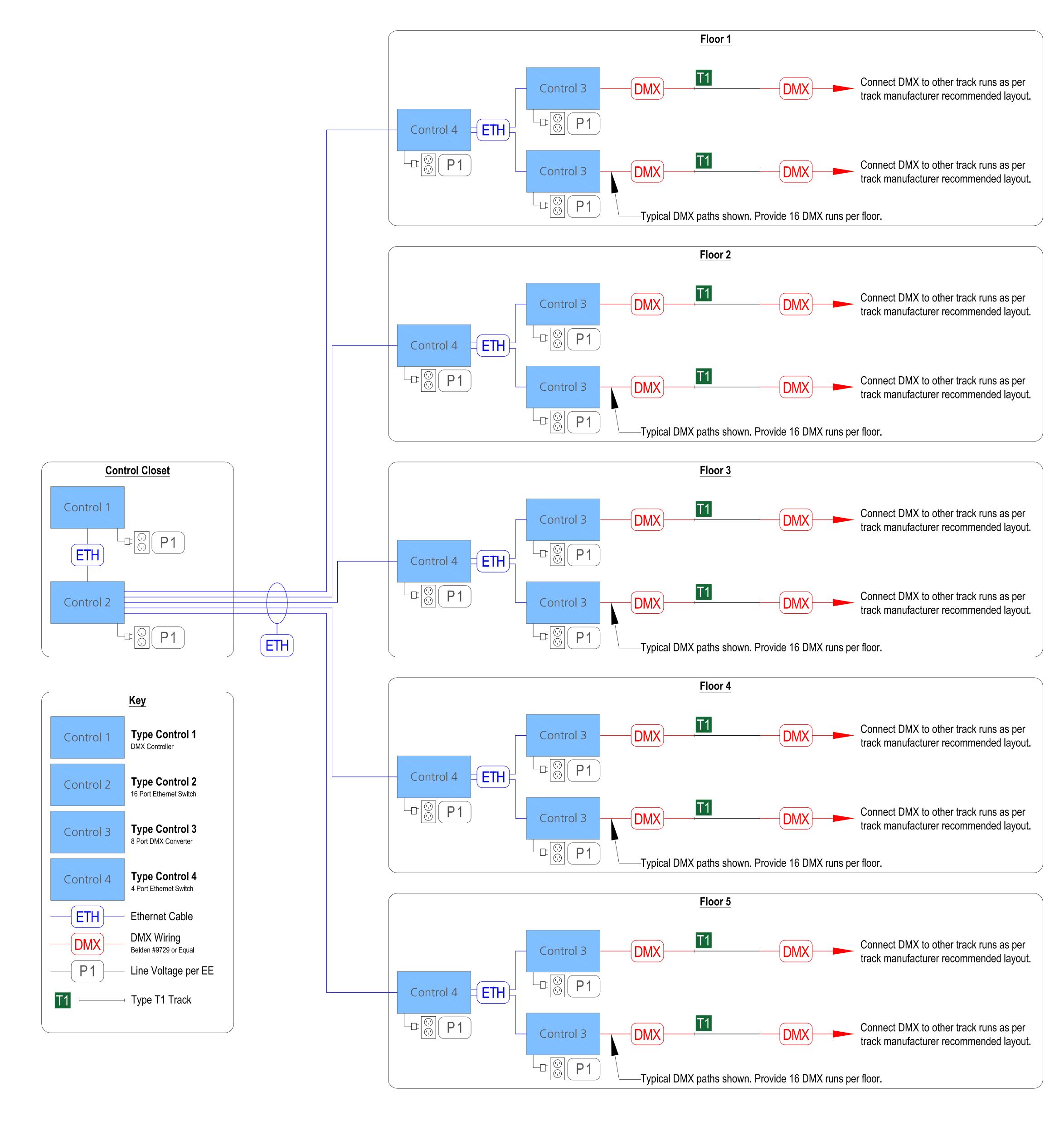
http://www.highoutput.com

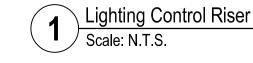
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- Candela Controls. Bill Ellis. bellis@candelacontrols.com.

407-654-2420. http://candelacontrols.com. - High Output. Mark Shore mshore@highoutput.com 781-364-1800





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1/02/18 DESIGN DEVELOPMENT

DATE

DESCRIPTION

NATIONAL COAST GUARD MUSEUM

DESIGN DEVELOPMENT

Lighting Control Riser

Drawing Scale Project Number Date Issued