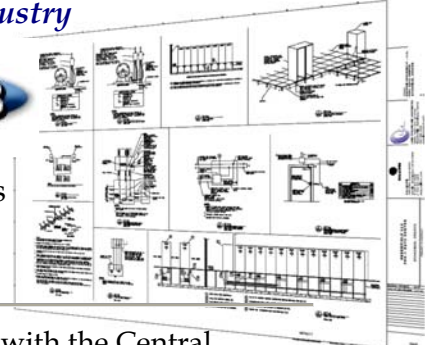
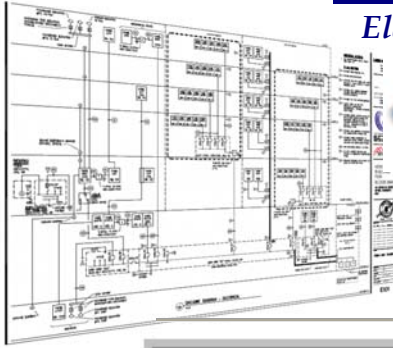




LANE COBURN & ASSOCIATES, LLC

Electrical Engineering Solutions for the Construction Industry

NEWSLETTER - SEPTEMBER 2008



Lane Coburn & Associates, LLC would like to take this opportunity to thank all of our Great Clients! We continue to improve to provide you a better product.



Lane Coburn & Associates, LLC is now registered with the Central Contractors Registration (CCR) for doing business with the Department of Defense. We are also registered with the U.S. Small Business Administration and qualify as a small Professional Electrical Engineering/Consulting business.



We are growing! Our seven staff members include Professional Engineers, Sr. Electrical Designers, CAD designers, Lighting Designers & support staff. Two of our team members are LEED Accredited Professionals with a significant amount of experience on LEED projects.

LCA Hires the new Manager of our Lighting Design Group!

We are pleased to announce that Lane Coburn & Associates, LLC has hired **Michael Cailao, LC, IESNA** as an Associate/Sr. Electrical Designer.

Michael is a senior electrical designer with over 25 years of experience and specializes in lighting design. Michael is a Lighting Certified Professional through the NCQLP and a member of the IESNA and has designed numerous high profile lighting projects. Michael will head up the Lighting Design Group at Lane Coburn & Associates. We have two Lighting Certified Professional and two LEED AP's on staff, we utilize AGI32 and Visual Professional for 2D & 3D lighting calculations & renderings.



To Better Serve Our Clients

LCA now has \$3,000,000 of Professional E&O insurance and \$4,000,000 of General Liability Insurance. We have increased our insurance level significantly above industry standards to better serve our clients on large and complex projects.

LCA is attending the BICSI conference in Las Vegas from September 29th - October 2nd. Attendance at the BICSI conference is only one avenue LCA follows to ensure our staff remains at the forefront of technology and current design standards.





**Keith Lane, PE,
LEED AP, 39**

Principal, Partner, Lane Coburn & Assocs. LLC, Woobinville, Wash.
Seattle University, BS in Electrical Engineering



Lane knows what hard work means. A former bodybuilder who earned Mr. Seattle Heavyweight 1992, Mr. Northwest 1992, and Mr. Eastern Washington 1997, Lane regularly puts in 80-hour weeks as a co-owner and chief engineer of his new company. "It's something I've always wanted to do," he said. "But I certainly had a lot more free time before this." Lane said the business, which focuses on commercial construction of confidential Tier 4 data centers, condos, hotels, mission critical facilities, and high-rise buildings, is designed to integrate and create synergy between design and build to closely connect the engineering and construction fields. Previously, Lane served as the director of engineering at SASCO in Seattle and served on the Seattle Code Committee, which evaluated the 2005 National Electrical Code. He also is a Registered Communications Distribution Designer and is a member of *Consulting-Specifying Engineer's* editorial advisory board. Lane has this advice: "Get involved in as many projects as possible. Stay diverse, because you want to stay abreast of new technologies." When he's not working, Lane enjoys spending time with his wife, Theresa, and children, Trevor, 2, and Emily, 4, who is learning to ride a horse.

CONSULTING - SPECIFYING

engineer

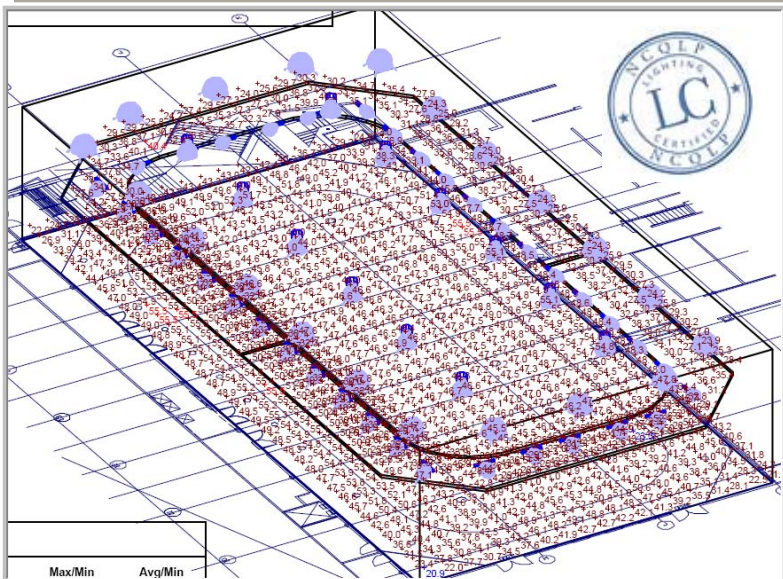
40
Under Forty

Keith Lane was named one of the Top 40 Engineers under 40 in America by Consulting Specifying Engineering Magazine.

Consulting-Specifying Engineer magazine has announced the recipients of its 40 Under 40 award. This award is given to 40 building industry engineers under the age of 40 who stand out in their academic, professional, personal, and community achievements.

"Our 40 Under 40 honorees excel in mechanical, electrical, or plumbing (MEP) engineering or professions associated with the construction industry, while also achieving work-life balance and serving their communities," said Michael Ivanovich, editor-in-chief, Consulting-Specifying Engineer.

"From responding to sustainability and technology challenges to working in IT-based collaborative environments, the 40 Under 40 are inspirational role models for students seeking dynamic and economically rewarding careers that provide public benefit."



LIGHTING DESIGN

LCA just completed the coordination & design of a lighting retrofit project for a large gym in the city of Bellevue. LCA is "LC" certified, Lighting Certified Qualified Professionals through the National Council on Qualifications for the Lighting Professional (NCQLP).

The "LC" certification, in addition to our twelve year professional membership in the Illuminating Engineering Society of North America (IESNA), our extensive electronic library of photometrics, state of the art three-dimensional lighting programs and our wide-ranging experience with high end, high-status lighting projects ensures a high quality, competent lighting design.



MISSION CRITICAL ENVIRONMENTS

Several of our projects have been for **Mission Critical Environments**. In addition to comprehensive professional engineering services, LCA offers a complete line of **Specialized Services** including: Protective Device Coordination Studies, Fault Current analysis, Neher-McGrath Duct Bank Heating Calculations, complete 3D Modeling and **Reliability Analysis**.

We are Experts in Mission Critical Facilities Master Planning:

Reliability Analysis - LCA can provide an availability and reliability analysis for your Mission Critical Environment. Before you spend significant capital on major components in your electrical system, a reliability analysis can simulate the benefits of alternate solutions. This will allow you to get the most bang for your buck. We look at the entire topology of your system and at each component. Attached below is a snapshot of a simple availability calculation given Mean Time Between Failure and Mean Time Between Repair.

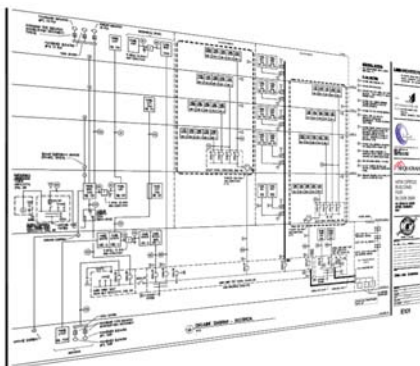
CIRCUIT BREAKER Service				Chiller Plant			
MTBF		2,496,000.00	Hours	MTBF		125,000.00	Hours
MTBR	(Note 1)	24	Hours	MTBR	(Note 1)	48	Hours
Availability = MTBF / MTBF + MTTR				Availability = MTBF / MTBF + MTTR			
Availability =		99.99903847%		Availability =		99.96161474%	
Down Time per Year		0.0840	Hours	Down Time per Year		3.3533	Hours
Down Time per Year		5.040	Minutes	Down Time per Year		201.200	Minutes

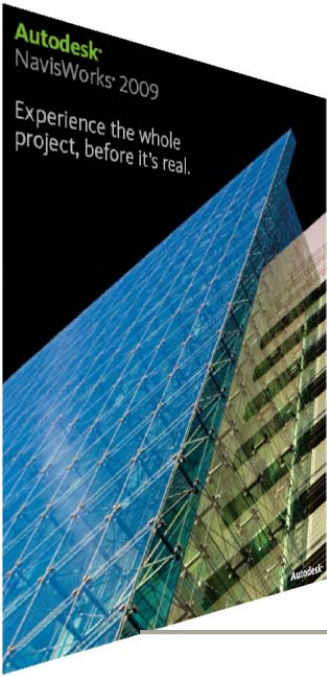
Feasibility Studies - LCA has been involved in several studies to determine the feasibility of building a data center at an existing facility or campus. We leverage our expertise in engineering and construction to help our clients determine if a project is economically feasible.

NEW PROJECT

Lane Coburn & Associates, LLC is in the process of completing the electrical design for the Tenant Improvement of the AMAZON office campus build out in the Vulcan Block 26 & 32 buildings. The project consists of approximately 350,000 SF of office buildout. LCA is working hand-in-hand with Sequoyah Electric on this fast paced, complex project to ensure a robust and flexible electrical and data communication distribution system.

We are working with LMN architects on the Shell and Core and IA Interior Architects on the Tenant Improvement portion of this project.

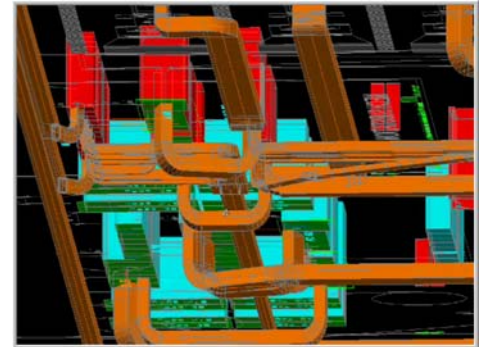
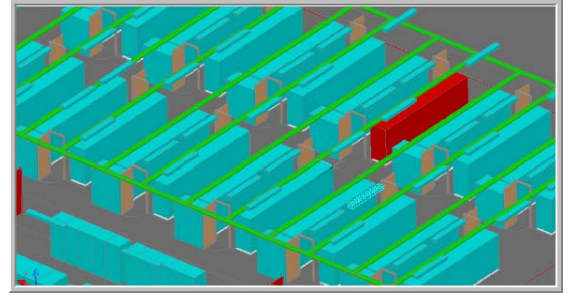




CAD NEWS

Lane Coburn & Associates is participating in 3D and Building Information Modeling (BIM) for a large data center project. We are working with McKinstry, Rosendin, Callison, KPFF and Hoffman Construction on the 3D modeling / BIM collaboration.

The design and construction teams are utilizing NavisWorks for collision detection and conflict resolution. This upfront 3D coordination will save significant time and money during the construction process with a reduction in RFI's and construction conflicts.



THANKS TO OUR GREAT CLIENTS

AMAZON
AVDATA Inc
Bovis Lend Lease
Benaroya Properties
Callison Architects
City of Bellevue
EHS Electric
Greenfield LLC.
IDC Architects
CH2MHILL

Lighthouse Electric Group
Prime Electric
Rock Electric, Inc.
SASCO
Sequoyah Electric
Turner Construction
TMOBILE
williams + tam DesignWorks

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