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NECA
2018
PHILADELPHIA
SEPTEMBER 29–OCTOBER 2

CONVENTION EDUCATION

Best Practices to Grow the Pie



Best Practices to Grow the Pie

Dave Fabulich – Taft Electric Company

Steve Rose – Rosendin Electric

This session is eligible for 2 Continuing Education Hours

For these hours to appear on your certificate, you must:

- Have your badge scanned at the door
- Attend 90% of this presentation
- Fill out the online evaluation for this session: www.necanet.org/neca2018



What's Important To You?



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What's Important To You?



- Share with us – what's important to you:



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What's Important To You?



- Share with us – what's important to you:
 - Our goal today is to:
 - Know what you would like to learn from us

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What's Important To You?



- Share with us – what's important to you:
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 - Be able to answer all your questions

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What's Important To You?



- Share with us – what's important to you:
 - Our goal today is to:
 - Know what you would like to learn from us
 - Be able to answer all your questions
 - **Share with you our collaborative effort - based on:**
Growing the pie – not stealing each other's slice

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Last Year's Presentation in Seattle

What we covered:

- Lean Construction Principles
- Safety
- Pre-Construction Planning
- Building Information Modeling (BIM)
- Scheduling
- Fabrication
- Packaging – Kitting
- Best Practices
- Software
- Question & Answers
- Plus and Delta's
- Contact Information



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Our Goal in This Presentation:

- To have a more concentrated discussion into:
 - Lean Construction Practices
 - Getting Fabrication “Buy-In”
 - Preconstruction leads to Planning,
 - BIM & Fabrication
 - Fabrication – The Process
 - Shop Metrics and why they matter
 - Packaging Processes – it’s the next big cost saver



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Lean Construction Practices and How They Effect Everything We Do

Collaborate & communication

We are looking and working toward **clarity**

Huddles

Job walks (gemba walks)

Strategy meeting / pull planning

Focus on the critical

Pdsa = plan / do / study / adjust (or pdca)

Clarity builds a collaborative team and gains traction /

A lack of **clarity** = team breakdowns and waste



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Lean Construction Practices and how they effect everything we do



Questions?

Getting Fabrication Buy-In





Getting Fabrication Buy-In

- How do I get my crews to buy-in to a new process and break the “old” culture of “we have always done it this way”?
- How long does it take to make the transition?
- Where do I start?



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Getting Fabrication Buy-In



Questions?

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Preconstruction (Planning) Leads to Fabrication

Ask the question:

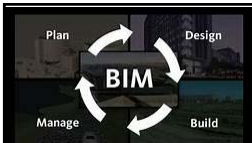
“What are we **not** going to fabricate?”

Plan your work toward fabrication

- Wall installations
- Racks (branch & feeder)
- Cable trays
- Junction
- Eliminates waste
- Foreman knows his project and has buy-in

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Planning, BIM & Fabrication

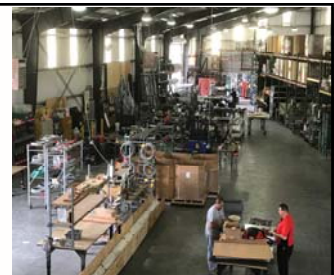
Using Planning & BIM To Eliminate
Waste, Time & Material:

Designers

- Minimize Questions
- Write Rfi's
- Look For VA / VE Opportunities

CAD Operators (Train Them):

- Place Racks And Seismic / Trimble Points / Load Points
- Takeoff Quantities
- Develop Sketches Of Installations For Clarity



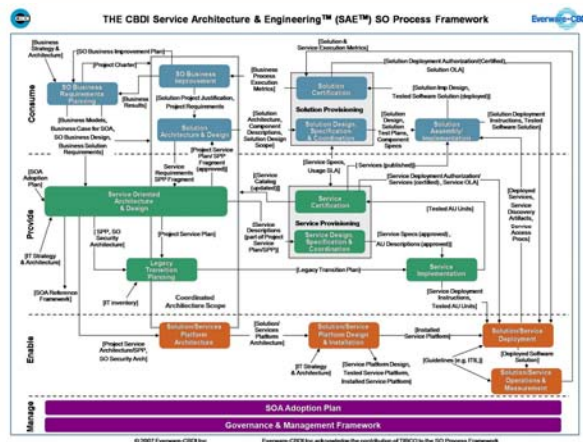
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Preconstruction (Planning) Leads to Fabrication and Planning, BIM & Fabrication **Questions?**



Fabrication – The Process



Fabrication –the Process



Questions?

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Fab Shop Metrics



- Track how long it takes to build items
- Do cost comparatives
- Do real life installations for comparisons
- Look for machines to help the fabrication process
- Develop Excel spread sheets to track metrics
- Go to the job sites and study conditions
- Use a method like C.B.A. (Choosing By Advantages) to determine what is of the greatest value.

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Fab Shop Metrics



Questions?

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The Packaging Process




What is packaging?

Where do I start?

What is the cost?

Best practices in packaging

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The Packaging Process



Questions?


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**Final Questions On Any
Subject**



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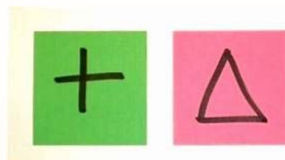
Where do we go from here?



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Plus & Delta's?



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Thank You!! Questions?

Contact Information:

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Steve Rose: srose@rosendinelectric.com

Don't forget...

- 10:15 am – 11:30 am – General Session with Christopher Tarbell & Hector Monsegur
- 11:30 am – 4:00 pm – NECA Show Hours