

# Avila Engineering & Construction Newsletter – Feb, 2018

Issue #3

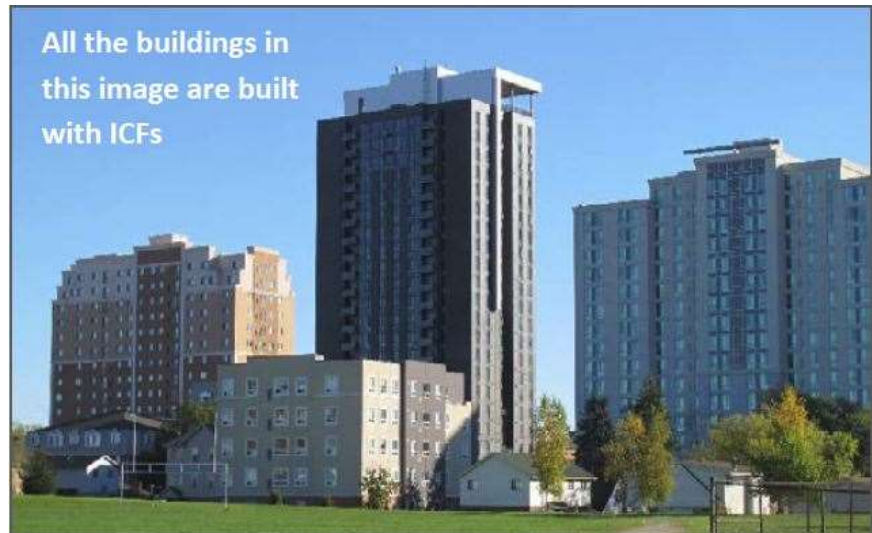
## INVITATION

AE&C, Quad-Lock & National Ready Mixed Concrete Association NRMCA are arranging a trip with developers to attend several commercial & residential ICF developments in different locations in east USA. We will take you to the jobsite and talk about the benefits on building with this extraordinary construction System. For more information please contact William at [william@avila-ec.com](mailto:william@avila-ec.com)



*The Ricchi, San Antonio TX*

## GET STARTED RIGHT AWAY



### Insulate Concrete Forms made USA strong

Although ICF have been used extensively and successfully in Europe & Canada for over 60 years, only in the last 5 years that the system has become more widely used in USA. The opposition to ICF in USA declining as builders and owners become more familiar with the product and its capabilities such as:

- Comparable cost with wood construction but, being more efficient (faster) than lumber and CMU; ICF offers cost saving and schedule gain.
  - Seismic resistance, since ICF construction combines concrete with reinforcement steel, ICF structures can be design for all seismic zones, however, if the industry starts to consider a bearing wall for the ICF system, it will reduce/eliminate the need of columns and beams in the design.
  - The inherent strength of concrete structure in resisting high winds from hurricanes and tornadoes.
  - The energy efficiency provided by the insulating forms saving up to 70% of HVAC energy consumption.
  - A cleaner inside air comparing with CMU & Lumber construction.
  - The ability to reduce outside noise providing a quite home.
- Natural resistance to damage caused by termites and uncomfortable visit of pests.
  - Three or more hours Fire Resistant.

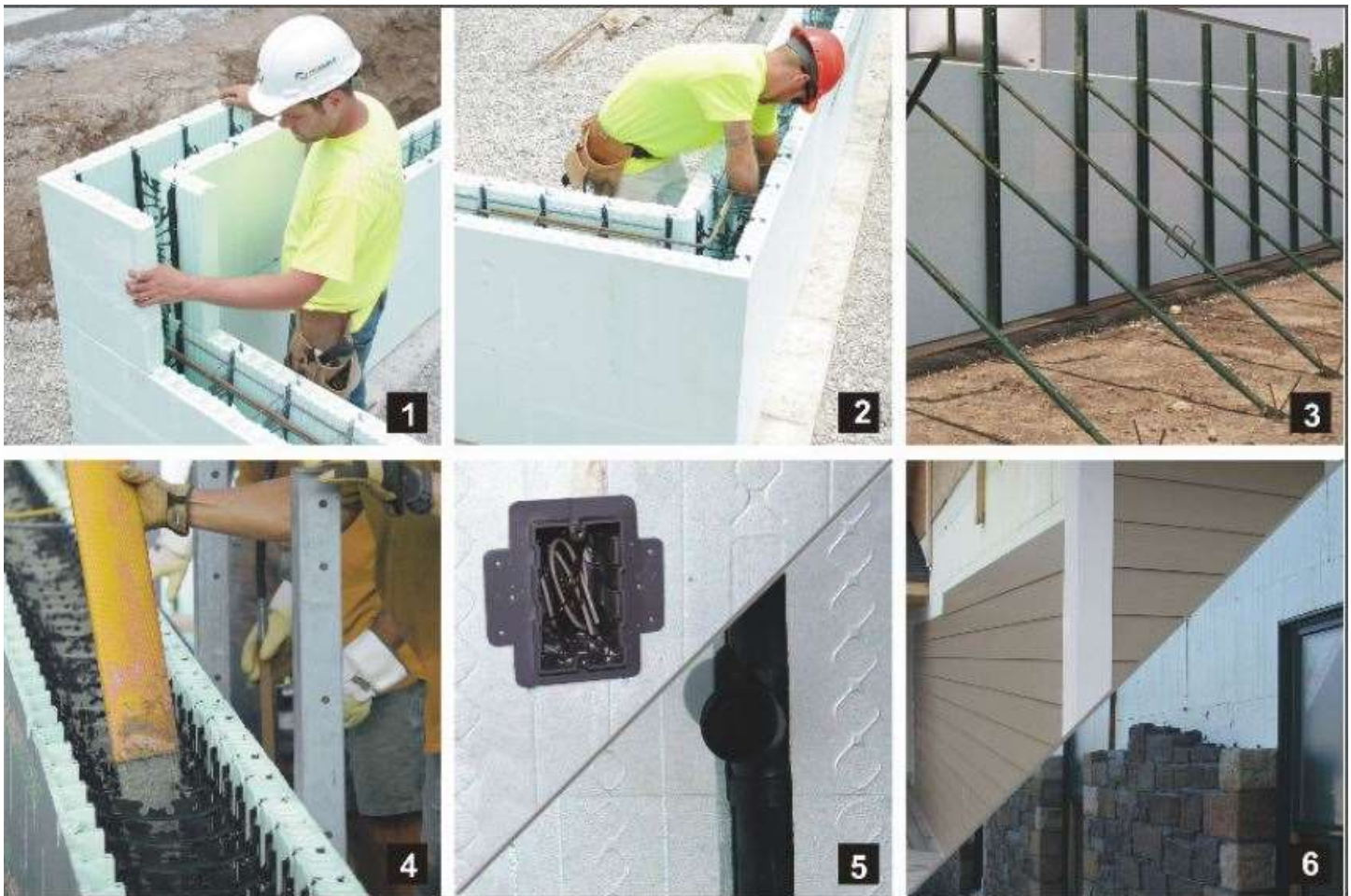
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*“It is not the strongest of the species that survives, nor the most intelligent, but the most responsive to changes” Charles Darwin*

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Wood Frame Construction	CMU Conventional Construction	ICF Wall & Deck Construction
1. Install Stud Wall	1. Form, Rebar Pour & remove formwork in columns	1. Install ICF Form
2. Brace Wall	2. Form, Rebar Pour & remove formwork in Beams	2. Install Reinforcement Rebar
3. Install Fire Stops	3. Mix Mortar	3. Brace Walls
4. Install Sheathings	4. Place the brick rows, remove mortar excess	4. Install Plumbing (if it is required)
5. Install Plumbing	5. Place damper barrier	5. Pour Concrete
6. Install Electrical	6. Place Studs	6. Install Electrical & Plumbing
7. Install Insulation	7. Install Plumbing	7. Install Exterior Finishes
8. Install Continuous Insulation	8. Install Electrical	8. Install Gypsum Wallboard
9. Install House wrap	9. Place Insulation	
10. Install Exterior Finishes	10. Place Moisture barrier	
11. Install Gypsum Wallboard	11. Install Exterior Finishes	
	12. Install Gypsum Wallboard	

*Less Steps & Less Trades = Less Time = Cost Saving*



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