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NEWS

Land Improvement Contractors Of America · Illinois Chapter

September - October 2019

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STRATEGIC PLANNING ROUND 1 RESULTS

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GOLF OUTING RAINED OUT... PAR FOR THE COURSE

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SUMMER PICNIC & MEMBERS' MTG.: PLASTIC PIPE EXPLORED, BYLAWS AMENDED

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Illinois LICA
P.O. Box 474
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Upcoming Events:

Board of Directors Meeting
ILICA Office: Brimfield
September 7, 2019

Board of Directors Meeting
TBD
November 2, 2019

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PRESIDENT'S MESSAGE



Hello Illinois LICA,
 Hope this finds you healthy, rejuvenated and ready for cooler weather after this hot and dry summer! Summer has officially ended at Curtis Land Improvement as Kane, our 1st grader, has returned to school as of August 15th. Time flies when you're having fun!

Speaking of fun! Don't forget about participating in our upcoming Illinois LICA events during the week of Sept. 23-27 where we will be holding multiple area membership meetings across the state covering various education topics, new membership benefits, and more. These programs are brief, highly informational, and include a FREE meal for an added bonus!

A big THANK YOU to all involved in making the constructed wetland on the ICC Campus in East Peoria a success! I had a

great time helping out and enjoyed running some equipment that I don't normally get to run...that haul truck was a blast wasn't it Norm Kocher! I would also like to thank all of our Associates for their donations to this project and others, it does not go unnoticed!

I would also like to apologize for our family being absent at the Summer Picnic, we had a family vacation scheduling conflict. I heard that Springfield Plastics gave Illinois LICA a great tour of their facilities.

As we continue working and enter into our busier time this fall, make safety a priority. This machinery is like second nature to us and it is easy to take things for granted, stay alert and don't get too complacent.

Respectfully,
 Grant Curtis

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BOARD & MEMBERS' MEETING SCHEDULE

Unless changed by the Board during the year, the ILICA business meetings are scheduled as follows:

Sept. 7, 2019 - Regular Meeting of the Board:

ILICA Office, Brimfield

Nov. 2, 2019 - Regular Meeting of the Board:

TBD

Exact location, committee meeting times & other details will be published in the ILICA News and sent to members via mail and/or email.

2019 BOARD MEMBER MTG. ATTENDANCE

A = absent		P = present		C = cancelled meeting		
Area / Director	Jan	Mar	May	Aug	Sep	Nov
Pres: Grant Curtis	P	P	P	A		
VP: Steve Anderson	P	P	P	P		
1st VP: Eric Layden	P	P	P	P		
Area 1 - Brian Brooks	P	P	P	P		
Area 2 - Vacant	-	-	-	-		
Area 3 - Wes Litwiller	P	P	A	A		
Area 3 - Joe Streitmatter	P	P	A	P		
Area 4 - David Kennedy	P	P	A	A		
Area 4 - John McCoy	P	A	P	A		
Area 5 - Earl Mast	-	P	A	A		
Area 6 - Jon Seevers	P	P	P	P		
Area 6 - Bill Dean	P	P	A	A		
Area 7 - Vacant	-	-	-	-		
Area 8 - Norm Kocher	A	A	A	A		
Area 8 - Tom Beyers	P	A	P	A		
Associate Dir: Brad Baker	P	P	A	P		



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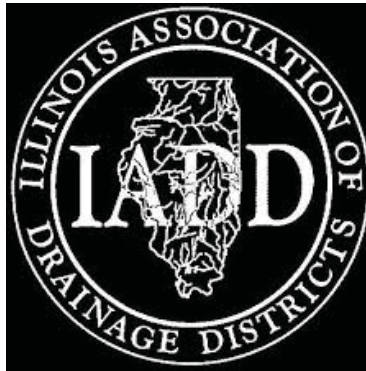
Thank You!

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SB 90 PASSES HOUSE & SENATE... REMAINS ON PRITZKER'S DESK

By Richard Lyons

The 101st legislative session of the General Assembly for the Spring of 2019 is over with many significant bills passed by the Illinois House and Senate and on their way to the Governor to be signed. From a Capitol Bill to an increase in the gas tax with associated increases in vehicle fees to SB 90, a bill which will affect drainage districts now and into the future. As your registered, unpaid lobbyist, I learned a lot about the legislative process in Illinois this past session. I learned that the divide between urban and rural issues within Illinois continues. I learned that being truthful and honest about issues both to the public and to your fellow legislators is not a value held by some Illinois legislators. I learned that common sense is not an important issue when making a decision regarding your vote on an issue. Finally, I learned that scientific evidence supporting a practice is not as important a statement as it is to create a position against the practice to get reelected in the next election cycle.



What do you need to know about SB 90? If your drainage district is in an area where metropolitan areas compose a significant portion of the district, then the viability of your district is at risk. SB 90 opened the door to the dissolution of active drainage districts by county government. The district funds may be taken over by the municipalities within the district for the purpose of storm water management not necessarily agriculture drainage even though that is the purpose for which drainage districts were originally formed. Originally, the legislation stated that districts could be dissolved if one or more municipalities accounted for 50 percent of the drainage district's territory. An amendment changed it to 75 percent and limits the provisions to drainage districts that are wholly or partially contained within the Lake Michigan Watershed, Chicago/Calumet Watershed, Des Plaines River Watershed, or Fox River Watershed that are wholly contained within a county with a stormwater management planning committee.

Historically, drainage districts have not been politically active and the IADD has refrained from entering the political are-

na to stay above the fray of Illinois politics. However, our previous Governor insisted on reducing governmental units within Illinois. The task force to do so under the Lieutenant Governor focused intently on drainage districts. The IADD turned back that assault. Personally, I thought that this fight was over, but the sponsor of SB 90 and his political colleagues brought this up as a reason for dissolving active drainage districts. It seems that the IADD must become politically active to preserve drainage districts so that they can function as they were originally intended. This intent was for the improvement of agriculture productivity in Illinois. SB 90 passed both the House and the Senate and was sent to Governor Pritzker to sign on June 29, 2019. SB 90 is past history. The question to members now is: should the IADD become more politically active to ward off more assaults on our agricultural drainage in the near and distant future? If you have an opinion, then please contact me at rlyons@speednet.com or the IADD State Office at info@iadd.info.

Richard Lyons is an Illinois Association of Drainage Districts Board Member and a registered lobbyist for IADD.

Source: Reprinted with permission from IADD Info-Line, Summer 2019 Issue

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ILICA Ladies Page



Slow Cooker Buffalo Chicken Sandwiches

Ingredients

- 4 skinless, boneless chicken breast halves
- 1 (17.5 fluid ounce) bottle buffalo wing sauce, divided
- 1/2 (1 ounce) package dry ranch salad dressing mix
- 2 tablespoons butter
- 6 Kaiser/hoagie rolls, split lengthwise
- 6 pepper jack cheese singles

Directions

Place the chicken breasts into a slow cooker, and pour in 3/4 of the wing sauce and the ranch dressing mix. Cover, and cook on low for 6 to 7 hours.

Once the chicken has cooked, add the butter, and shred the meat finely with two forks. Pile the meat onto the hoagie rolls, top with pepper jack cheese and splash with the remaining buffalo wing sauce to serve.

Adapted from source: <https://www.allrecipes.com/recipe/176132/slow-cooker-buffalo-chicken-sandwiches/#>

Crockpot Chicken & Noodles

Ingredients

- 2 cans cream of chicken soup
- 2 cans chicken broth (15 oz each)
- 1 stick butter or margarine
- 1 lb chicken breasts (fresh or frozen)
- 1 package frozen egg noodles (24 oz; like Reames brand)

Directions

In crockpot, put chicken on bottom. Pour the chicken broth and soup on top. Then top that with the stick of butter. Put the crockpot on low for 6-7 hours.

Take the chicken out and shred. Put back in crockpot.

Add the frozen noodles and cook for 2 more hours, stirring occasionally.

*Note: If meal seems too bland, feel free to use whatever spices one would use for chicken and dumplings anytime during the cooking process.



Adapted from source: <https://cookpad.com/us/recipes/349318-crockpot-chicken-and-noodles>



Slow Cooker Root Beer Pulled Pork Sandwiches

Ingredients

- 1 (3 pound) pork roast (boneless)
- 1 (12 oz) can root beer
- 1 (18 oz) bottle of your favorite BBQ sauce
- 8 hamburger buns

Directions

Spray your slow cooker with nonstick cooking spray. Place roast inside slow cooker and pour the root



beer over the meat. Cook on low for about 6-8 hours (or until meat easily shreds).

Take the roast out of the slow cooker and shred using two forks (it should just fall apart). Drain the root beer out of the slow cooker and place the shredded roast back inside. Stir in the bottle of BBQ sauce. Keep warm in the slow cooker until serving.

Place meat on hamburger buns and serve.

Source: <https://www.sixsistersstuff.com/recipe/slow-cooker-root-beer-pulled-pork/>

GOLF OUTING RAINED OUT... PAR FOR THE COURSE

Strategically scheduled for rain avoidance on June 21st, to the best of the Golf Outing Committee's (and most weather-men's) ability, the Area 6 Golf Outing and Trap Shoot had great potential with around 60 registered golfers and nearly a dozen registered shooters. However, during a year with record setting rainfall and weather events, it only seemed "par for the course" that the Area 6 Golf Outing was completely rained out after about 4 holes. Trap shooters faired much better on the day, completing their entire shoot and winning a number of great prizes.

For 2019, trap shooting was introduced to the Area 6 Golf Outing, after being introduced to the Area 3 Golf Outing the year before with a positive response. Held just 9 miles from Meadowview GC in Lerna, IL at the Paul McKillip Farm, trap shooters started off the day's event successfully completing their round of clay shooting in the morning. Paul graciously hosted the event and welcomed our group to his personal grounds where shooters had the opportunity to shoot at two stations for 50 clays, competing for points, bragging rights, and prizes. Top shot, after a tie breaker, went to K.C. "Shooter" Rhodes, who edged out Josh Neff by only 4 shots. From the bottom of the pack, three individuals with the lowest scores were entered into a drawing for a brand new Remington 870 donated by Prins Insurance. Greg Magsamen was the winner of the new gun, even scoring a new gun case from the door prize pile to transport the firearm home in.

Around noon, golfers began gathering at Meadowview Golf Course for lunch as weather radars indicated that storms were pending over the next few hours. Shortly after the shotgun start, the quick moving storms were already upon golfers with strong winds, heavy rain, and

lightning after an average of only four holes completed. It quickly became obvious that the storm had already dumped too much rain on the course to resume play even after it started, additionally the storm was only building instead of letting up. So, the golf outing was officially deemed rained out. Dinner was started early as many golfers socialized in the clubhouse with no other option but to have fun indoors instead. And while you never hope for rain during your outdoor events, most golfers were understanding particularly during a year like this. Fortunately, those that were interested received a 9 hole raincheck from Meadowview GC for a sunnier day.

Though the weather was on par for the year, the Area 6 Golf Outing and Trap Shoot realistically saw very few pars on the course with only 4 holes completed before the rain out. Regardless, golfers and shooters, who did get their full event in, still enjoyed the fun day and camaraderie that only a social event like this can provide.

Thank you to our countless green and tee sponsors, outing sponsors, prize donors, and Paul McKillip for supporting the Illinois LICA Area 6 Golf Outing and Trap Shoot!



Top Shot, KC "Shooter" Rhodes, wins a clay thrower and box of clays after a tie-breaker shoot off



Greg Magsamen wins a Remington 870, donated by Prins Insurance's Bruce Mosier





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STRATEGIC PLANNING ROUND 1 RESULTS

Discussed exactly one year ago during the September Board Meeting, it was decided that strategic planning for the Association in the short term would be beneficial, providing a roadmap for the future of the organization. Tasked to the Executive, Long Term Planning, and Membership Committees, the process was set in motion shortly after being discussed with a date set on the calendar for the first planning session and with the securement of Prins Insurance as strategic planning facilitator.

In an effort to minimize travel for Prins Insurance and members involved with the planning process, the first round of strategic planning was held the day before the Area 6 Golf Outing & Trap Shoot in Mattoon, IL on June 20. For the entire day, eight members of leadership engaged with Prins Insurance team members, Amber Bosma and Bruce Mosier, to review the importance of strategic planning, to dive into mem-



bership metrics, to explore the Association's strengths and weaknesses, and to set short term goals for the organization. Some of the strategic planning goals drafted for the next few years focus on engaging and growing membership, ramping up branding efforts, and diversifying education content and partnership relations. (For full session notes, contact Ryan in the office.)

As the growth of Associations struggle nationwide, the Illinois LICA Board of Directors has already begun one of the most difficult parts of strategic planning...just getting started. With strong notes and valuable discussion from the first round of strategic planning in June, Prins Insurance will help guide members involved with the process to a final document on the last day of the 2020 ILICA Convention on February 22 in Springfield, IL. Members are encouraged to attend and provide input to help steer Illinois LICA to continued growth and success for our members.

NATIONAL LICA MEETS IN PACIFIC NORTHWEST

For those willing to make the trek towards the west coast for the 2019 National LICA Summer Meeting in Vancouver, WA, the Pacific Northwest did not disappoint.

As is often the case with tours hosted at National LICA events, the views and history surrounding Mount St. Helens, the Columbia River Gorge, Multnomah Falls, and Mt. Hood were amazing; particularly Mount St. Helens where the aftermath of its powerful eruption almost 40 years ago can still be witnessed on the landscape to this day.

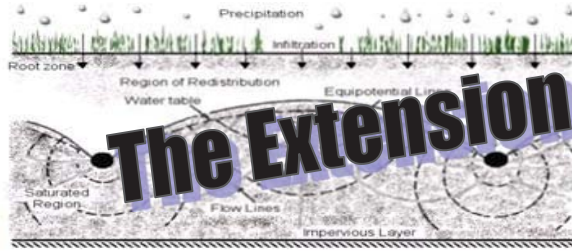
Though attendance for the event was down noticeably, education sessions that covered Facebook development, website optimization, risk management, and subsurface drainage

were still well attended; as were various committee meetings.

A number of new benefits were announced during the Summer Meeting including Sunbelt Rentals' 10% discount for LICA members and 5 benefits from Sandhills Global: premium hosted website options with free banner advertising, eCommerce options for websites, Currency financing and credit card processing, and Inventory Management System for buying and selling equipment via the National LICA website for free!

Another great National LICA Summer Meeting is on the books with the next Convention scheduled ahead of CONEX-PO in Vegas on March 7-9.





The Extension Connection

Source: Richard Cooke - Department of Agricultural and Biological Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

DRAINAGE COEFFICIENT EFFECTS ON DRAINAGE SYSTEM RESPONSE TO LARGE RAINFALL EVENTS

Drainage systems in Illinois are typically designed using a 0.375" or a 0.5" drainage coefficient. The drainage coefficient is the depth of water removed from the soil in 24 hours, from a soil with an elliptic water table that initially touches the soil surface midway between the drains. There were several large rainfall events this spring, often on successive days, that left water ponded on even intensively drained fields for what seemed like forever. This raises the question as to whether or not recommended design drainage coefficients should be increased. The answer lies in the realm of Economics, optimizing cost and benefits. Such optimization requires an understanding of the hydraulic performance of various design options, among other things.

A hydraulic analysis of the performance of three drainage systems for the field shown in Figure 1 is presented below. This field is typical of many fields in Illinois -flat with a mixture of hydric soils that require drainage to be productive. In this instance the design is done for Drummer, the State Soil and the most ubiquitous soil in the state. Because there is a ditch next to the field, the mains are short. Longer mains change the economic calculus, but the hydraulic analysis is very representative.

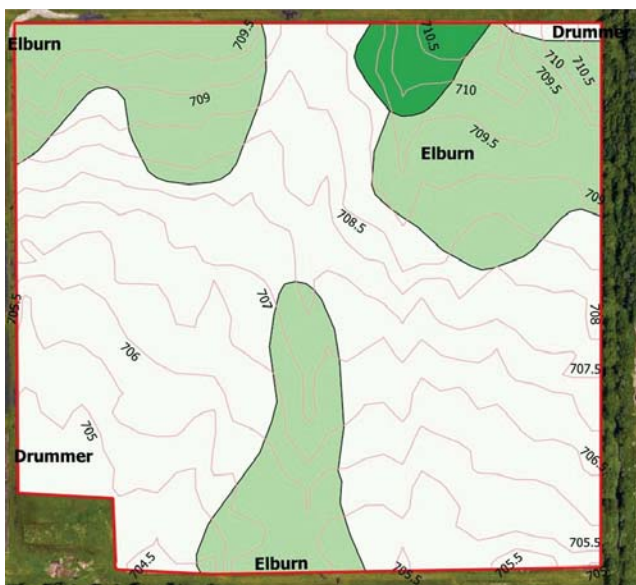


Figure 1. Field, with ditch on the right, used for hydraulic analysis of three drainage system designs.

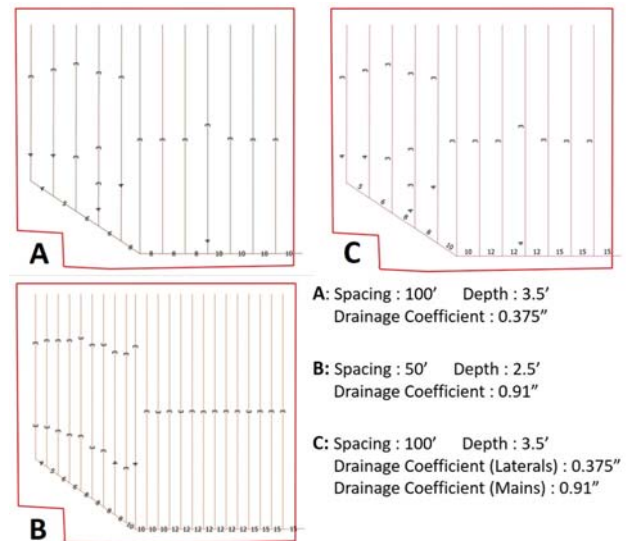


Figure 2. Layout and pipe sizes for drainage systems used for analysis.

The layout and pipe sizes for the three designs are shown in Figure 2. System A is a typical design for Drummer. The tiles are spaced 100' apart and put at an average depth of 3.5'. The resulting drainage coefficient is 0.375". The tile spacing in System B (50') is half that of System A, and the tiles are shallower (2.5). This system represents a trend towards installing narrower, shallower systems with higher drainage coefficients, 0.91" in this instance. In System C, the drainage coefficients are uncoupled, with 0.375" and 0.91" used for the laterals and mains, respectively.

The analysis was performed for the first 24 hours after an event that saturates the soil and causes the water table to be flat at the soil surface. This scenario is likely after a rain event that exceeds the capacity of the main. The capacity of the main is not necessarily the same as the design drainage coefficient. The relationship between design drainage coefficient and main capacity is shown in Figure 3. The main capacity corresponding to a 0.375" drainage capacity is 8.9" (Pipe a). However, since pipes sizes are standard, a 10" pipe would be used for this system. The main capacity for this 10" pipe is the drainage coefficient that makes the actual pipe size the same as the nominal pipe size (Pipe c). This value (0.512") can be found by

(Continued pg. 13)

Figure 3. Layout and pipe sizes for drainage systems used for analysis.

Pipe Type Indices: 1-Single Wall 2-Dual Wall 3-Clay 4-Concrete															
Pipe Name or #	Drain. Coeff (in/day)	Lateral (feet)		Upstream Area (acres)	Attached Pipe			Inflow (cfs)	Inlet		Effective Flowrate (cfs)	Main		Actual Size (Inches)	Nominal Size (inches)
		Length	Spacing		Size (inches)	Slope (percent)	Pipe Type Index		Diameter (in)	Head (feet)		Slope (percent)	Pipe Type Index		
a	0.375	0	70	28	0	0.3	1	0	0	2	0.441	0.1	1	8.90	10
b	0.91			28							1.071	0.1	1	12.41	15
c	0.5118			28							0.602	0.1	1	10.00	10
d	1.5092			28							1.775	0.1	1	15.00	15
e											0.000	1	1	0.00	3
f											0.000	1	1	0.00	3
g											0.000	1	1	0.00	3
h											0.000	1	1	0.00	3

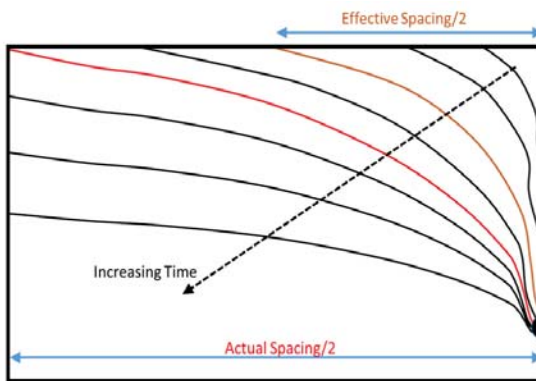


Figure 4. Water table profiles on one side of a lateral resulting from draining an initially flat water table.

trial and error, or by using the Goal Seek function in the Main Sizing, EXCEL worksheet as demonstrated in Figure 3. The capacity for the 15” main was 1.51” in this instance.

A schematic of water table profiles from draining a flat water table is shown in Figure 4. Firstly, the extent of the drawdown region, called the effective spacing, increases until it extends to midway between the drains. At this instant the effective spacing is the same as the actual drain spacing (red line in Figure 4). As time increases, the mid-plane water table height decreases. When the effective spacing is less than the actual drain spacing, the instantaneous drainage coefficient exceeds the design drainage coefficient. The maximum rate at which water leaves the profile is governed by the capacity of the main. At the instant the effective spacing equals the actual drain spacing, the instantaneous drainage coefficient is equal to the design drainage coefficient. As time progresses and the mid-plane water table height decreases, the instantaneous drainage coefficient is less than the design drainage coefficient.

The evolution for the effective spacing for Systems A and B in Figure 2 are shown in Figure 5. For the deeper wider system, System A, it takes approximately 9 hours for the effective spacing to equal the actual spacing. The corresponding time for the narrower, shallower system, System B, is approximately 3 hours.

The instantaneous drainage coefficients for the first 24 hours of drainage are shown in Figure 6. The capacity of the main controls the drainage for the first 3.0 hours and 1.8 hours, respectively, for Systems A and B. After these times the drainage rate is dictated by the transport properties of the soil. The drainage rate in the deeper, wider system equals or exceeds that of the shallower, narrower system for the first 4.8 hours. After 24 hours, the drainage rate from the two systems are approximately equal, but drainage rate from the shallow system decreases faster than that for the deeper system.

The depth of water removed over the first 24 hours by each of the three systems is shown in Figure 7. The cumulative depths are 0.42”, 0.69”, and 0.58”, respectively, for Systems A, B, and C.

Table 1. Drainage Systems Costs.

SYSTEM A (100' 3.5' 10"main)			
Pipe	Length (ft)	Unit cost (\$/ft)	Cost (\$)
3" plowed	9898	\$0.75	\$7,424
4" plowed	1467	\$1.00	\$1,467
5" plowed	120	\$1.25	\$150
6" plowed	240	\$1.50	\$360
8" trenched	400	\$2.85	\$1,140
10" trenched	418	\$5.20	\$2,174
12" trenched	0	\$7.30	\$0
15" dual wall	0	\$13.50	\$0
System Cost			\$12,714
Cost per acre			\$410
24 hour drainage (in)			0.42

SYSTEM B (50' 2.5' 15"main)			
Pipe	Length (ft)	Unit cost (\$/ft)	Cost (\$)
3" plowed	21376	\$0.75	\$16,032
4" plowed	1099	\$1.00	\$1,099
5" plowed	62	\$1.25	\$78
6" plowed	122	\$1.50	\$183
8" trenched	245	\$2.85	\$698
10" trenched	200	\$5.20	\$1,040
12" trenched	350	\$7.30	\$2,555
15" dual wall	244	\$13.50	\$3,294
System Cost			\$24,979
Cost per acre			\$806
24 hour drainage (in)			0.69

SYSTEM C (100' 3.5' 15"main)			
Pipe	Length (ft)	Unit cost (\$/ft)	Cost (\$)
3" plowed	9898	\$0.75	\$7,424
4" plowed	1347	\$1.00	\$1,347
5" plowed	120	\$1.25	\$150
6" plowed	120	\$1.50	\$180
8" trenched	240	\$2.85	\$684
10" trenched	200	\$5.20	\$1,040
12" trenched	300	\$7.30	\$2,190
15" dual wall	318	\$13.50	\$4,293
System Cost			\$17,308
Cost per acre			\$558
24 hour drainage (in)			0.58

(Continued pg. 14)

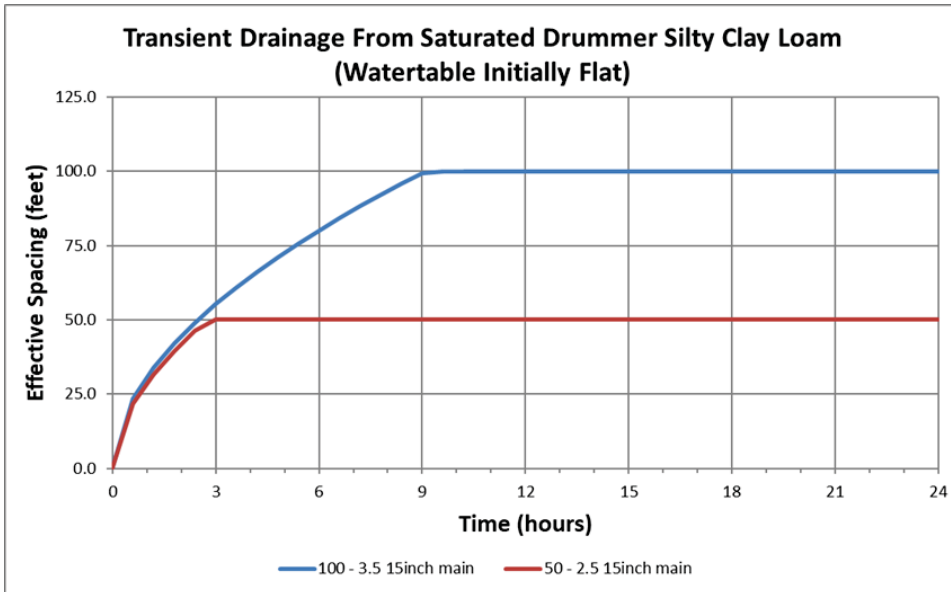


Figure 5. Effective spacing versus time from draining an initially flat water table.

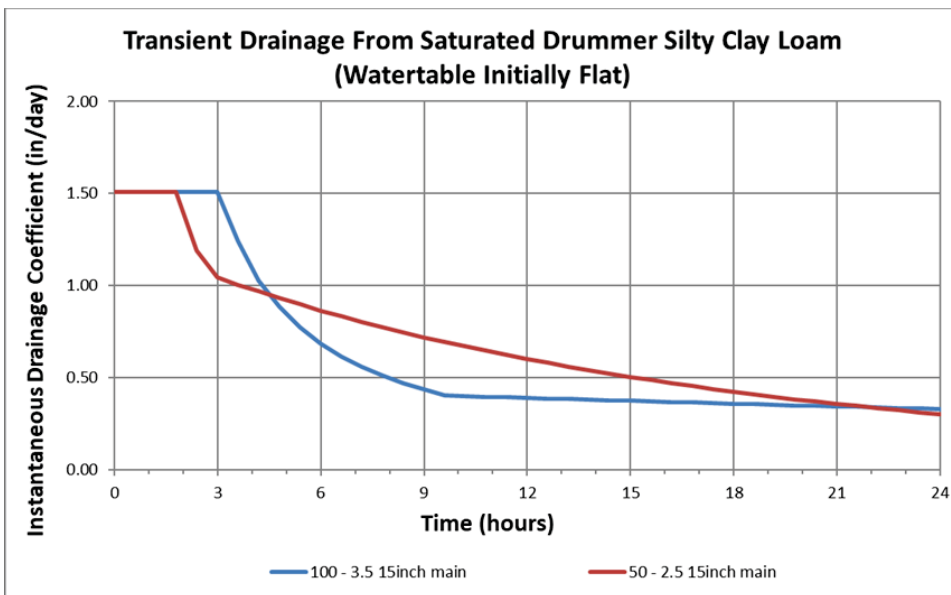


Figure 6. Instantaneous drainage coefficient versus time from draining an initially flat water table.

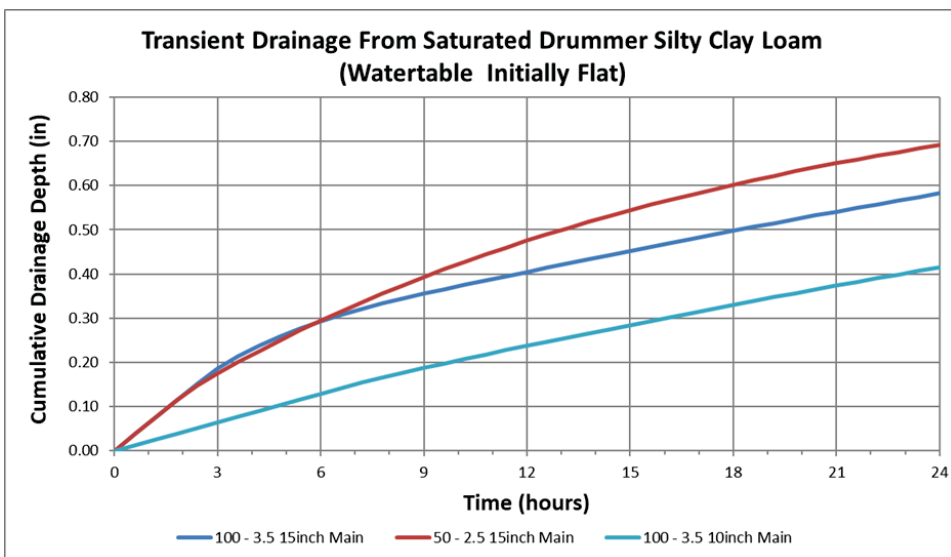


Figure 7. Instantaneous drainage coefficient versus time from draining an initially flat water table.

C. System costs and 24 hour drainage rates are shown in Table 1. The unit pipe costs are representative industry standard. Unit pipe cost is often dependent on job size, decreasing as job size increases. The cost does not include the cost of making connections or of moving equipment. As mentioned earlier, these systems have short mains as they are next to a ditch. In actuality, main costs can be significantly more, depending on the distance to be travelled to an outlet.

The systems were designed using 3" laterals were possible. With the laterals being steep and much shorter than the lengths that would cause them to flow at capacity, it is unlikely that the laterals will restrict flow, even at high instantaneous drainage rates. However, 4" laterals are much less likely to restrict flow than 3" laterals, so that might be a design consideration.

The most cost effective of the three systems seem to be System C, in which the drainage coefficients for mains and laterals were uncoupled. This should be a consideration in designing drainage systems for faster drainage after large events. Another option would be to increase the depth of narrower systems. In this instance, for example, if the narrow system were placed 3.5' deep, the drainage coefficient would be 1.34", which is less than the 1.51" limit for a 15" main shown in Figure 2. The cost, therefore, would not change much. However, the 24 hour drainage would increase to 1.0", a 45% increase over the 24 hour drainage of the shallower system with the same spacing.

In many cases system depth is limited by the depth of the outlet. In instances where this is not so, it seems that designing the system with a drainage coefficient that equalizes the actual and nominal pipe sizes would be the most cost effective. Cost effectiveness could also be increased by uncoupling the drainage coefficients for mains and laterals.

SUMMER PICNIC & MEMBERS' MEETING: PLASTIC PIPE EXPLORED, BYLAWS AMENDED

For the second year in a row, Illinois LICA members had the opportunity to get a behind-the-scenes glimpse of the processes involved to manufacture plastic drainage pipe as part of the Summer Picnic and Members' Meeting. Following the morning tour hosted by Springfield Plastics, Inc. in Auburn, IL, members enjoyed a grilled picnic lunch and camaraderie before addressing membership matters including a bylaws amendment.

From the moment members pulled into the parking lot of Springfield Plastics', they were warmly greeted by a number of staff members along their path to the company's breakroom; the starting point of their tour. After attendees enjoyed morning snacks and beverages, Steve Baker provided the official welcome to the group and highlighted tour logistics. As tour groups departed throughout the plant, donned with appropriate safety gear, guides explained the various methods and steps involved with Springfield Plastics' pipe production from incoming product to final product quality control and even the loading of trucks. Members had the chance to witness three different pipe sizes, as well as fittings, under production during the Saturday tour. They also learned about Springfield Plastics' newest production line and many of the additional steps the company takes to ensure a quality product, start to finish.

Traveling 30 minutes north to beautiful Southwind Park in Springfield, members regrouped after the plant tour for a delicious grilled picnic meal provided by retired member Stan SeEVERS with assistance from Jon & Veronica SeEVERS. Wasting no time after lunch, the members'

meeting began addressing business including amending the bylaws to increase state chapter dues by \$30, from \$170 to \$200 annually; thereby raising total Association dues, including National dues, to \$350/year effective October 2019. Some other business discussed during the meeting included strategic planning, upcoming Association events, advertising opportunities, and the Administrative Assistant job opening.

The Summer Picnic & Members' Meeting had fantastic food, tours, and weather yet again this year, providing members the opportunity to learn about plastic drainage pipe manufacturing and providing the perfect setting to address Association business in the company of friends.

We thank all our event sponsors and supporters including Springfield Plastics, Inc.; Stan SeEVERS; Jon & Veronica SeEVERS; Martin Equipment of Illinois; Sullivan Auctioneers; Northland Trenching; Bower's Great Lakes Inter-Drain; Precision Intakes; and Hickenbottom, Inc.



ILLINOIS LICA Picnic Sponsors










2020 Dues

By-Laws Amended

TOTAL DUES: \$350

EFFECTIVE OCTOBER 2019

FURTHERING ILICA'S MISSION: ONE PROJECT DEMONSTRATION AT A TIME

To promote, perpetuate, and improve the proper use of our natural resources for the benefit of all; as Illinois LICA continues to advance its mission, few strategies have proven more effective at accomplishing this than the completion of summer project demonstrations. By the time of print, ILICA will have completed installation of roughly 35 acres of pattern tile drainage, a bioreactor, a saturated buffer, and a constructed wetland this summer alone. *Promoting* edge of field practices; *perpetuating* conservation drainage; and *improving* water quality.

On June 20, ILICA installed a saturated buffer system near Longview, IL for The Nature Conservancy, in conjunction with the Illinois Sustainable Ag Partnership's Advanced Conservation Drainage Training program; marking the second installation of a saturated buffer by the Association in 2019. Local member Koeberlein Drainage completed the project on behalf of the Association. Despite the soggy conditions, the project was successfully completed during the open-to-the-public field day event where approximately 60 producers, technical assistance providers, ag service providers, and media gathered to learn more about the practice, its installation, and its benefits.

Saturated Buffer Details (images above)

- **Lead Partner:** The Nature Conservancy
- **Technical Design:** Water Management Solutions, LLC
- **Treated Drainage Acreage:** 46
- **Practice Specs.:** Lateral length 1200' (6")

During the week of July 22-27, ILICA constructed one of the most unique constructed wetlands to-date for The Wetlands Initiative (TWI) on the campus of Illinois Central College (ICC) in East Peoria, IL. With its horseshoe design, peninsula, and island areas, this roughly 1 acre constructed wetland, designed by TWI, was built with ICC's users in mind. Sited near the campus main loop, the constructed wetland integrates an existing cross country course along its berms, provides enhanced aesthetics to a prior green space on campus, and serves as a multidisciplinary education and research site for



the agriculture and biology departments. While the constructed wetland could be visited by the public any time during the week of construction, the official field day event on Thursday drew nearly 50 individuals interested in conservation drainage, wildlife habitat, nutrient management, cover crops, and soil conservation to the site.

Constructed Wetland Details

(images opposite page)

- **Lead Partner:**
The Wetlands Initiative
- **Technical Design:**
The Wetlands Initiative
- **Treated Drainage Acreage:** 35
- **Practice Specs.:** Area 0.93 ac.

ILICA can only accomplish our mission through the strong efforts, expertise, and support of our members, associates, and partners. **Thank you to ALL those involved, including the following partners and supporting members:**

Saturated Buffer Project: Illinois Sustainable Ag Partnership; The Nature Conservancy; Koeberlein Drainage; Agri Drain, Corp; Springfield Plastics, Inc.

Constructed Wetland Project: The Wetlands Initiative; Agri Drain Corp.; Alta Equipment Company; Altorfer, Inc.; Birkey's; Bradford Supply Company; Frasco, Inc.; Martin Equipment of Illinois, Inc.; Mathis-Kelley Construction Supply; Metal Culverts, Inc.; Roland Machinery Co.; Schlatter's, Inc.; Storm Water Supply, LLC

For a complete listing of supporters and to view more photos and videos from the summer partnership projects visit www.ilica.net under the "Projects" tab. (Continued pg. 17)

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CALENDAR OF EVENTS

Illinois

Board of Directors Meeting

September 7, 2019

ILICA Office - Brimfield, IL

Committee meetings: 10 am - 1 pm

Board Meeting: 2 pm

Board of Directors Meeting

November 2, 2019

Area Members' Meetings

September 23-27 2019

TBD (Statewide): Education, Benefits Update, FREE Meal

National

National LICA Open House

October 11, 2019

3080 Ogden Ave., Suite 300, Lisle, IL 60532

Come visit the new National LICA Office from 1-5 pm! Refreshments & snacks will be served.

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Even when you and your crew think you are safe, some drivers can make working on the roadside potentially deadly. If a motorist is confused, not paying attention or driving recklessly, you could be in grave danger while on a job site.

When a worksite involves moving traffic, it is up to the roadside workers to protect the public and themselves from dangerous accidents. Remember these safety tips while you are on the job.

Plan Ahead

Traffic controls should be implemented prior to the start of the roadwork by driving through the proposed traffic pattern.

- This dry run will allow you to make changes to the route so that it makes sense to motorists.
- If you notice any obstacles or areas that may be confusing, change them before beginning the work.

Signs

- Follow the Manual on Uniform Traffic Control Devices provided from the U.S. Department of Transportation found at <http://mutcd.fhwa.dot.gov> and your local and state regulations regarding proper signage and barricading.
- Place warning signs at least 1,000 feet before the start of the work zone.
- Signs should be highly visible and in good working order.

Barricades

- Place space cones, barrels and other devices used to guide traffic close together throughout the construction site.
 - ◊ Motorists should not be able to deviate from the path you feel is safest for them to travel.

Safety Gear

- Wear hard hats, Day-Glo® or orange vests during the day and light-reflective strips at night.

Flagging Duties

At least one employee should act as the traffic control person.

- Control traffic with a highly visible sign paddle during the daytime.
- Flaggers should carry two-way radios to communicate with other employees.

- Alert motorists of the presence of flaggers by placing signage at least 500 feet from the beginning of the work zone.

Vehicle Specifications

- All vehicles must have backing alarms, two-way radios and signs indicating “Slow Moving.”
- All vehicle operators should be properly trained on how to operate the equipment.
- Place cones around vehicles parked on the side of the road to warn motorists to slow down and watch out for them.

Take Extra Precautions at Night

- Increase warning distances for signage.
- Flaggers should use orange-cone flashlights to guide traffic.
- Place flashing lights on barricades.
- Tape off excavation site access.

Discussion Date: _____

Employee Participants



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