

2014 Missouri LICA Drainage Workshop

Designing and Installing Agricultural Subsurface Drainage Systems

February 12 - 14, 2014
Holiday Inn East - Columbia, Missouri

Wednesday, February 12, 2014

Noon	Registration
1:00pm	Welcome and Introductions <i>Presenter: Debbie Dickens</i>
1:15pm	Introduction to Drainage Water Management (Section 1) <i>Presenter: Marty Comstock</i>
1:30pm	MU Drainage and Sub-irrigation (MUDS) Research Update (Section 2&3) <i>Presenter: Kelly Nelson</i>
2:30pm	Water Movement in Soils, (Section 4) <i>Presenter: Clayton Lee</i> <ul style="list-style-type: none">♦ Processes and Terminology♦ Important Soil Properties♦ Hydraulic Conductivity♦ Soil Water Concepts
3:15pm	Break
3:30pm	Engineering Standards and Specs (Section 7) <i>Presenter: Brandon Viers</i>
	Planning Considerations (Section 5) <i>Presenter: Marty Comstock</i> <ul style="list-style-type: none">♦ Needs: Surface or Subsurface Drainage, Water Table Management, or Nutrient Management♦ System Layout & Outlet Locations♦ Utilities Determination - One-Call
	Subsurface Drain Design, Pipe Capacity (Section 6) <i>Presenters: Marty Comstock and Brandon Viers</i> <ul style="list-style-type: none">♦ Class Problem 1, Using Design Tables and Standards
5:00pm	Adjourn for the day

Thursday, February 13

8:00am	Class Problem 2 & 3 - Using Design Tables and Standards <i>Presenters: Marty Comstock & Brandon Viers</i>
8:45am	Lateral Design <i>Presenter: Marty Comstock</i>
9:15am	Making a Topographic Map from Survey Points (Section 6) <i>Presenter: Brandon Viers</i>

Thursday, February 13 (Continued)

9:45am	Break
10:00am	Class Problem 4 <i>Presenters: Marty Comstock & Brandon Viers</i>
11:15am	Planning Considerations (Section 4) <i>Presenter: Clayton Lee</i> <ul style="list-style-type: none">♦ The importance of an On-Site Evaluation of Soil Properties♦ Wetland Determination
12:00pm	Lunch Provided
1:00pm	Class Problem 5 – System Design <i>Presenters: Marty Comstock & Brandon Viers</i>
2:30pm	Class Problem 5 – Review and Discussion <i>Presenter: Marty Comstock & Brandon Viers</i>
3:00pm	Break
3:15pm	Pipe Installation Considerations <i>Presenter: Marty Comstock</i>
3:45pm	Class Problem 6 <i>Presenters: Marty Comstock & Brandon Viers</i> <ul style="list-style-type: none">♦ Field Topographic Map♦ Soils, Other Information, Web Soil Survey
5:00pm	Adjourn for the day

Friday, February 14

8:00am	TSP Provider Training <i>Presenter: Dick Purcell</i>
8:30am	Continue work on Design Problem 6
9:45am	Break
10:00am	Presentation and Summary of Problem 6 Drainage Design <i>Presenter: Dick Purcell</i>
11:00am	Nitrogen Treatment for Drainage Systems <i>Presenter: Matt Helmers</i>
12:00pm	Lunch Provided
1:00pm	Contractor/Industry/Farmer/University Panel Discussion <i>Moderator: Dick Purcell</i>
	Final Questions, Summary and Evaluation
3:00pm	Adjourn