



**EAGLE  
POINT**



*In-Depth Look*

## Advanced Irrigation Design

Create large-scale irrigation designs.

*Using **Advanced Irrigation's** powerful design capabilities, you can create large-scale systems for large commercial properties or golf courses.*

### PRESSURE ADJUSTMENT FOR ELEVATION

While auto pipe sizing with a valid surface model, *Advanced Irrigation Design* calculates pressure loss or gain due to elevation change.

### VALVE IN HEAD SYSTEM SUPPORT

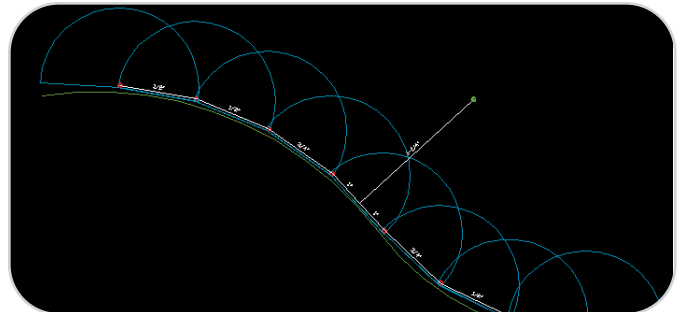
Use the heads database editor to specify if a head is offered as a valve in the head system.

### MULTIPLE POINTS OF CONNECTION

*Advanced Irrigation Design* assists you in determining the available water and pressure based on the information provided.

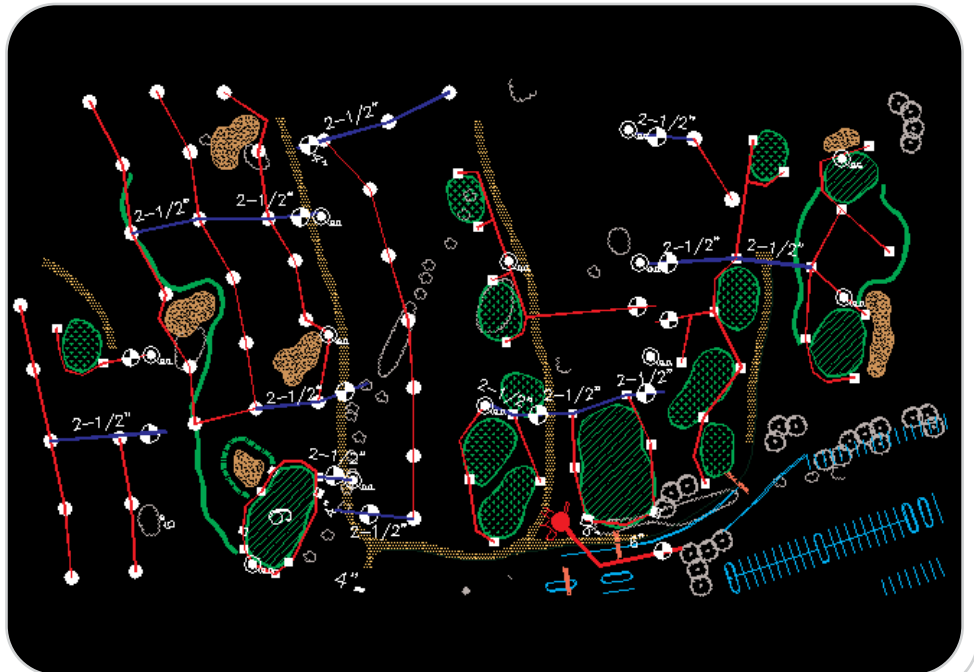
### PUMP STATIONS

Place pump station "smart objects" and *Advanced Irrigation Design* takes them into account during the pipe-sizing process to determine if there is sufficient pressure to operate the design.



*"Over a period of approximately a month, my consultant took the time to understand our needs and provided us with several alternative solutions that would solve our problems. As a result, we proceeded to order the LANDCADD™ package. Good luck to you and your team at Eagle Point and thanks for developing a relationship with me and focusing on my business and individual needs."*

- Stanley J. Poturalski  
President  
Sundance Creations, Inc.



## SITE PREPARATION

- Quickly and easily input property line data and *Advanced Irrigation Design* creates it on the screen for you.
- Utilize point files or existing contour plans to create your surface model for use in *Irrigation Design*.

## HEADS

- Place a hatch pattern inside an area to be irrigated and use it as a template or guideline to help locate sprinkler heads.
- Locate all the sprinkler heads inside a given area in a single step or place sprinkler heads individually for greater control.
- Automatically array a sprinkler to get multiple copies of that sprinkler over a large area. This saves you from having to manually locate a large number of sprinklers.
- Place user-defined sprinklers along the edge of a turf area.
- Show coverage arcs during the design process to ensure adequate coverage and turn the arcs off when you are ready to use the design drawing as your final plan.
- Modify the head data without having to remove and insert a new head. The ability to copy and move heads is also provided to increase the speed of plan revisions.
- At anytime you can erase the head and remove the associated arc automatically.
- Heads can be linked to *Quantity Takeoff* for more advanced cost estimates.

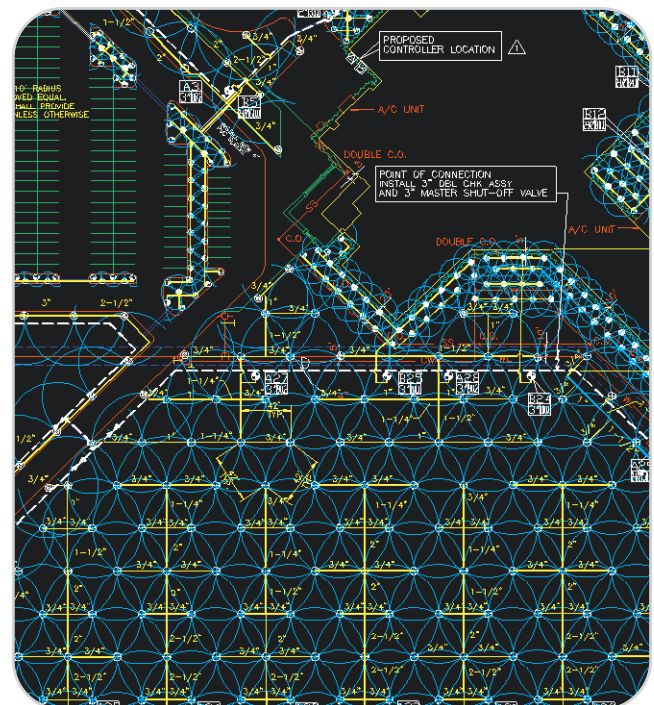
## ZONES

- Group sprinklers controlled by the same valve. *Advanced Irrigation* warns you if there is insufficient water.
- Insert a label tag to identify a zone and indicate the total discharge required for that zone.
- Calculate the precipitation rate and operating times in minutes per day, then generate a user-defined water usage report based on these calculations.

## PIPES

- Set parameters for pipe insertion that include pipe data file selection, *Quantity Takeoff* link option, object property overrides and label style.

- Graphically show the flow of water from the sources to each of the individual zones and their respective valves.
- When you edit a pipe, the corresponding label is automatically updated.
- Graphically shows lines that might cross but are not related to each other.
- Change from one label style to another to make your plan appear more graphically pleasing. If you have labels that conflict with the pipe locations, you can mirror or rotate them, or select a different style so that the plan becomes more readable.
- Take an initial pipe layout, convert it to appropriately-sized pipe objects and label the objects for graphic purposes at the same time. This makes it easy for you to convey to the contractor what pipe sizes should be used in the various parts of the pipe layout.
- When auto pipe sizing with a valid surface model, *Advanced Irrigation Design* calculates pressure loss or gain due to elevation change.
- Graphically display irrigation pipes under hard surfaces such as sidewalks and driveways in your design.



## DRIP

- Lay out Netafim-type subsurface drip irrigation systems.
- Locate individual emitters for each selected plant and draw the drip tubing if necessary. You can also specify the flow rate of each emitter.
- Locate areas on the plan that are to be specified as drip without showing all of the actual emitters.

## EQUIPMENT

- Insert irrigation equipment symbols such as water meters, back flow preventors, filters and other equipment that are not otherwise accounted for in the design.
- Create a legend on the drawing of all components used in the irrigation design. This gives you a quick visual tool of the quantities of each item used in the plan.

## DATABASE

- Edit data that is used when locating sprinkler heads. This information is generally taken directly from the manufacturer's catalogs and contains operating pressures, coverage radius (or length and width) and discharge flow for each nozzle.
- Use the heads database editor to specify if a head is offered as a valve in the head system.
- View and modify the data for various pipe types.
- Keep a database of common pump stations to use on multiple designs.

## TOOLS

- Place a border in your CAD graphic and select the symbol, orientation and rotation angle for the border.
- Insert various symbols representing bar scales into the drawing and specify the drawing scale.
- Insert various symbols representing tags into the drawing to specify text associated with the tags.
- Layout an easy-to-use reference grid to locate items in the drawing.
- Graphically indicate turf areas or other irregular-shaped planting beds by inserting a large number of dots along the edge of the area and gradually fading to fewer and fewer dots in the center.

- Hatch areas with different patterns to represent different elements.
- Illustrate the edges of large masses of plants, rather than showing individual plants.
- Represent a breakline by a zigzag or swoop to show an area on a drawing that may continue onto another sheet, or a distance that is longer than the distance displayed.
- Change the width of single or multiple polyline segments.
- Select an object on a layer/level and *Advanced Irrigation Design* automatically totals the line segments and polyline segments on the selected object's layer/level or the area of all closed polylines on the object's layer/level.
- Insert a block of ASCII text into the drawing. This is useful when you have large blocks of text such as planting specifications that need to be placed in the drawing.
- Enter a text string and have it follow the path of a polyline.
- Make changes to multiple pieces of the same text.

### ABOUT EAGLE POINT

*For over 20 years, Eagle Point has provided the Land Development industry with business and technology solutions. We use a defined process to explore your business and provide you with the right balance of solutions to help your organization thrive. We've helped over 30,000 clients worldwide.*