

Project: Harmony

Location: Timnath, Colorado

Project Purpose

Provide an upscale master-planned community blending striking natural beauty with full-scale amenities to help achieve a balanced lifestyle for the growing Front Range community of Timnath, Colorado.



Scope

- ***Irrigation and pumping system design for 40 acres of open space.***
- ***Irrigation transfer pumping system design.***
- ***Water-feature recirculation pumping/mechanical systems design.***
- ***Utilization of raw water source for irrigation system and lake amenities.***

Role of Irrigation Consultant

The irrigation design consultant provided:

- ***Irrigation engineering and consulting services.***
- ***Completed engineering design and construction documents for irrigation system, recirculating water features, and VFD pumping system.***
- ***VFD pumping system features automatic filtration to deliver pressurized raw water to the sprinkler/drip irrigation system for the project streetscapes and open spaces.***



Special Factors

- ***Hydraulics due to elevation differences onsite***
- ***Multiple storage lakes***
- ***Interface with golf course irrigation system***
- ***Raw water used as irrigation source***
- ***Central control system***
- ***Native seed and turf interfaces***
- ***Utilization of high-efficiency stream rotors***



Significance

- ***The design of the raw water transfer pump facilities is intended to provide the capability to move irrigation water between the four onsite storage lakes.***
- ***The design of the open-space irrigation system allows it to be used as a backup irrigation source for the golf course irrigation system.***
- ***Our irrigation design helped enhance and integrate the interface between native and turfgrass species in order to provide a more sustainable system for the project.***

