



Department of Public Works

## Engineering Division

James M. Wolfe, P.E., City Engineer

City-County Building, Room 115  
210 Martin Luther King, Jr. Boulevard  
Madison, Wisconsin 53703  
Phone: (608) 266-4751  
Fax: (608) 264-9275  
[engineering@cityofmadison.com](mailto:engineering@cityofmadison.com)  
[www.cityofmadison.com/engineering](http://www.cityofmadison.com/engineering)

---

### Assistant City Engineer

Bryan Cooper, AIA  
Gregory T. Fries, P.E.  
Chris Petykowski, P.E.

### Deputy Division Manager

Kathleen M. Cryan

### Principal Architect

Amy Loewenstein Scanlon, AIA

### Principal Engineer 2

Janet Schmidt, P.E.

### Principal Engineer 1

Kyle Frank, P.E.  
Mark D. Moder, P.E.  
Fadi El Musa Gonzalez, P.E.  
Andrew J. Zwieg, P.E.

### Financial Manager

Steven B. Danner-Rivers

## Subject: Geothermal systems at City of Madison and CDA Facilities

### Geothermal systems with supplementary boilers

1. (2008) Fire Station 12 – design was modified to add a boiler after ~15 years of operation due to undersized horizontal borefield; only horizontal borefield in City of Madison portfolio.
2. (2018) Fire Station 14 – building has significantly higher heating load than cooling load so borefield was sized for cooling load and part of heating load
3. (2026) Community Development Division - Bartillon Shelter – building has significantly higher heating load than cooling load so borefield was sized for cooling load and part of heating load
4. (2026) Parks Warner Park Community and Recreation Center – new addition to existing facility, existing boiler remains.

### Geothermal systems without supplemental boilers

1. (2015) Fire Station 13
2. (2019) Library – Service and Support Center
3. (2020) Library – Pinney Branch
4. (2026) *Future Library - Imagination Center at Reindahl Park*
5. (2028) *Future* – West Public Works Facility – South Point Rd
6. (2029) *Future* – South Park/Badger Housing Development with Fire Station 6 and PHMDC South Clinic
7. (2030) *Future* – South Police District/Evidence Storage Facility
8. (2026-2032) *Future* – CDA Triangle buildings