

MARIA CAHILL

Sustainable Site Specialist, Green Girl Land Development Solutions

7345 SW 29th Ave. Portland, OR 97219 ☎ greengirl@greengirlpdx.com ☎ 503.334.8634

OBJECTIVE To apply my knowledge of planning and construction of sustainable sites in a way that will create beautiful, functional places to enhance the health and welfare of the community

EDUCATION Pennsylvania State University

May 1992

B.S. Civil Engineering, specialized in structural and geotechnical engineering.

Passed EIT in October 1992. Completed work experience requirements to sit for PE exam.

WORK EXPERIENCE

Green Girl Land Development Solutions *Sustainable Site Specialist*

Portland, OR

Jun 2008 – present

A civil engineering based creative services practice

This is a new business and in general my goal is to do anything that will help increase the sustainable principles applied on any given project. Specifically, I have already provided design review, mentoring and work products designed to increase the sustainability of the site on each project. I've also facilitated a Natural Step-like charrette for one client. Please visit my website (www.greengirlpdx.com) for a summary of services that I've provided to my new clients as well as other services that I offer.

MGH Associates *Urban Engineering Group, Sustainable Technical Advisor & Project Manager*

Portland, OR

Sep 2006 – Jun 2008

A civil engineering and planning firm

Project management: The Urban Engineering Group specialized in service to architectural clients. Within this group, project managed new and redeveloped low-impact sites from land use review to construction administration including extensive coordination with government bureaus and design & construction team members; wrote proposals and managed budgets; directed work of others

Design: Porous pavement and numerous other water quality & quantity facilities; water supply for potable and fire applications; sanitary sewer; grading & erosion control; quantity take-offs. Experience designing with City of Portland BES, BDS, Transportation design requirements as well as Clean Water Services' Stormwater Management Manual and various other local and regional codes; stormwater modeling

Training: Trained fellow co-workers in sustainable design approaches & technologies through presentations and design review; provided green resources for their projects

Writing: Technical writing for operation & maintenance manuals, stormwater, and inspection reports

Business Development: PowerPoint presentations on sustainable land development to various audiences; participated in Portland Public School's Courtyard Competition; upselling to current clients

DL Design Group *Sustainable Design Leader*

Portland, OR

May 2004 – Sep 2006

A WBE/DBE land development engineering and planning firm

Project management: Project managed new and redeveloped low-impact sites from land use review to construction administration including extensive coordination with government bureaus and design & construction team members

Design: Porous pavement and numerous other water quality & quantity facilities; water supply for potable and fire applications; sanitary sewer; grading & erosion control; quantity take-offs

Training: Trained fellow co-workers in sustainable design approaches & technologies; provide technical assistance on their projects

Writing: Technical writing for operation & maintenance, drainage, and inspection reports; communications for articles; project summaries for marketing, & website; editing

Public speaking: Give PowerPoint presentations on sustainable land development to private design firms

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General: Experience designing with City of Portland BES, BDS, Transportation design requirements as well as Clean Water Services' Stormwater Management Manual and various other local and regional codes. Attend classes & conference to learn timely information about sustainable design approaches.

Cahill Associates *Civil Designer*

West Chester, PA

Oct 2003-Feb 2004; Jun 1996-Jan 1998

A sustainable water resources firm specializing in infiltration methods and watershed management

Design: Assisted in many facets of site design including stormwater management techniques such as porous pavement, recharge beds, and vegetated swales; grading; manholes and piping

Drawing production: Created and produced drawing sets for site design projects; united data from many sources to develop, manage, and manipulate GIS data sets for watershed studies

Field: Some surveying and percolation testing

Viridian Landscape Studio *Landscape Designer*

Philadelphia, PA

Mar 2000-Feb 2004

A sustainable landscape architecture firm (formerly Rolf Sauer & Partners)

Design: Grading; assisted in site design to solve issues such as pedestrian and vehicular circulation, stormwater management, and building location to manage a site's natural resources in the most ecological way while providing the client and site's visitors with the best possible experience and a sense of place

Drawing production: Created and managed drawing sets and transferred design ideas into AutoCAD; exported site plans from AutoCAD into Photoshop to make attractive, easy-to-read graphics for presentations, reports & educational purposes

General: Familiar with various site requirements for projects ranging in size from 16 to 300 acres for National Park Service visitor centers, summer camps, historic sites, & religious communities; edited and laid-out reports and proposals; prepared takeoffs and estimates

Andropogon Associates *CAD Operator*

Philadelphia, PA

Jan 1998-Mar 2000

A sustainable landscape architecture firm

Drawing production: Created and produced drawing sets for design projects and presentation graphics and report editing for master planning projects

GIS: Managed & expanded GIS databases for the Fairmount Parks Trails Master Plan

General: Assisted with design charettes; pioneered many approaches to expedite work flow in AutoCAD that are still being used by the office

Gannett Fleming *Junior Geotechnical Engineer*

Harrisburg, PA

Sep 1992- May 1993

A national design/build civil engineering company

Design: Analyzed data regarding field conditions and generated reports for the design of culverts and bridge foundations

Field: Supervised and directed exploratory drilling operations for the Scranton-Carbondale Highway in Pennsylvania, primarily to locate coal veins and past mining operations

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COMMUNITY INVOLVEMENT & PUBLIC SPEAKING

Columbia Land Trust: Serve on the Lands Committee to bring an engineering perspective to the process of recommending lands for purchase to the board of directors

Metro's Pervious Surfaces Seminar: Met with organizer of event from Metro to brainstorm ideas; presented an introduction on appropriate applications of pervious pavements, site preparation, and touched on cost implications.

Sustainable Principles for Land Development: Presented to Metro's ENACT Committee, Lincoln City 2008 Erosion Control Seminar, SOLV Stream Team Training and staff presentation, & numerous design firms

Cascadia Green Building Council: Engineering Green Conference: presented with Rob Fowler of Fortis Construction on contractor communication so that low impact designs are built to be true low impact solutions. Living Building Challenge: research and writing to craft portions of the Living Building Challenge version 1.3 related to site

Capitol Hill Elementary School Stormwater Retrofit Project: Assisting in a stakeholder process to treat the school's 4 acres of impervious area in a way that will least impact the community use of this rare flat, paved site in the Southwest Hills of Portland; guided process, ran eco-charettes, gathered comments at community events, maintained website, and created a progress report that has helped to garner substantial financial and design support of the BES' Watershed Division

Stream Team Captain for SOLV's Team Up for Watershed Health: Direct volunteers to plant trees in sensitive riparian areas to restore watershed health; presented Low Impact Development PowerPoint presentation as part of the Advanced Stream Team Training program; invasive plant monitoring of established sites

GENERAL EXPERIENCE

Project types: includes urban infill, large land development, parks, educational institutions, health care facilities, affordable housing, visitor's centers, public administration buildings, commercial, industrial, and institutional

Software: Draft, design and write in technical environments with 14 years of experience using AutoCAD; additional software experience includes Land Development Desktop, Civil Tools, HydroCAD 8.0, Hydraflow Hydrographs, Water Works, HEC-HMS, ArcView, Spatial Analyst, Excel, PageMaker, Quark, FrontPage, Photoshop, Fireworks, PowerPoint, Acrobat Distiller, and Dreamweaver

Entrepreneurial: At 11, I went door-to-door selling stationary and cleaning products. During college, I distributed \$5 in promotional materials to local businesses and landed a data entry job.

Music business: Played banjo with my husband for 10 years in our own original rock and roll band called Ten Spiders; Was the primary songwriter and band leader; did almost all the marketing, promotion, and scheduling which resulted in band appearances and airplay on many public television and radio stations and over 800 gigs in ten different states; self produced two CDs of original music

PERSONALITY Outgoing, helpful, intelligent, efficient, honest, loyal, and creative; like to hike/backpack, bicycle, ski, sing and play banjo, sketch, and study foreign languages; passionate about learning and sharing knowledge