

Agenda

Presented by Jeffrey A. Brem, PE

Introduction, Background, Overview of Day

Feasibility Planning

Client objective - always 1st Use
Regulatory review Mapping

Conceptual Planning

All above plus:
Better base maps Site visit Limited on-site survey
Wetland delineation Identify potential constraints and opportunities

Project Types

Residential
• Single family • Townhouses • Mid/high rise, multi-family/apartments • Other
Commercial, institutional, recreation, agriculture, other
• Parking - employees, GFA and reserve parking
• Utilities • Retaining walls • Traffic studies and improvements
• Walks • Accessibility • Street access - curb cuts/signals
• Off-site improvements

Site Design - Residential

Roadway planning - calming curves, finalize concept
Roadway plan view Roadway profile view Auto grading volumes

Site design - Commercial

Layout Grading Drainage Utilities
Lighting Landscaping Signage Other

Site Grading

Roadway Single family lots Multi-family Commercial
Example grading plans - complete Exercises

Drainage and Stormwater

Septic System Design

EPA – NPDES-Stormwater Pollution Prevention Plans

Construction General Permit MS4 SWPPP NAHB short form template

Computer Applications

Standard - MS Word, Excel, others AutoCAD and other design programs
HydroCAD and other drainage design programs
3-D modeling

Project Management, Permitting, Entitlements

Consulting proposal Consulting contract Schedule Invoicing
Team members Application process Permits
Peer review Presentation materials
Presentation process Abutters and other stakeholders

Construction Engineering

Value engineering Pre-construction meeting
Shop drawing review As built

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Site Design
Live, Interactive Webinar
Wednesday, September 30, 2020

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Participate in site feasibility and conceptual planning that will identify potential constraints and opportunities.

Identify the design elements for, and distinctions of, residential site planning and commercial, institutional, and recreational site design.

Explain how site grading for roadways, single family lots, multi-family lots, and commercial lots accomplishes drainage requirements for stormwater, stormwater pollution prevention planning, and septic systems.

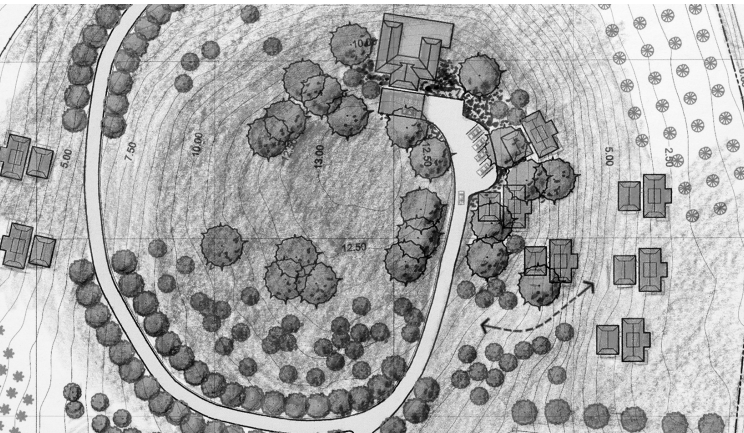
Participate in site management and acquisition of required permits necessary for site design and development.

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HalfMoon Education Online Learning

Site Design

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Participate in feasibility planning and conceptual planning

Work on residential and commercial site designs

Consider parking, utilities, traffic, accessibility, lighting and landscaping

Plan for stormwater management and septic system design

Explore software applications

Obtain permits and manage site work

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CE Hours

AIA

6.5 LU|HSW

International Code Council

.65 CEUs (Sitework)



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Jeffrey A. Brem, PE

Mr. Brem is a registered professional engineer in Mass, NH, and Maine. He has led his own small civil engineering and land surveying practice for over 27 years with two offices and up to 25 employees. His experience includes designing private land developments, storm water management systems, sanitary sewer systems, wastewater treatment facilities, roadways, surveying, construction management, and a host of other professional services primarily for private, for-profit companies. He has been involved in the design of over 3000 residential single family house lots – many of which were open space or cluster developments, thousands of condominium units, and over 2 million square feet of commercial/ industrial/institutional space. He has advised the MassDEP in numerous task forces and committees including as a present full member of the Stormwater Advisory Committee and on the Title 5, Septic System Stakeholders Group. He is currently the vice president, past treasurer and member of the Board of Directors for HBRAM (the Massachusetts Homebuilders Association), vice president of NEBRA, and a national delegate of the National Association of Home Builders based in Washington, DE. He has co-authored, with Harvard Law School Professors Joseph William Singer and Brandon Storm, a legal case study on development entitled the “Case of the Interfaith Neighbors”, July 2016 (PSW021-SM01). He is active professionally and recreationally as an avid skier, boater, golfer, and a recreational bicyclist as he just bought a new bike.

Webinar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 12:00 - 1:00 pm EDT
Morning Session 8:30 am - 12:00 pm EDT	Afternoon Session 1:00 - 5:00 pm EDT

Tuition

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Additional Learning

2018 International Residential Code: Structural Design

- Fri., Sept. 11, 2020 | 11:00 am - 3:30 pm CDT

Current Issues in Sustainable Site Design

- Mon., Sept. 14, 2020 | 11:00 am - 2:15 pm CDT
- Tues. Sept. 15, 2020 | 11:00 am - 2:15 pm CDT

Stormwater Basins and Underground Systems

- Mon., Sept. 14, 2020 | 12:00 – 4:00 pm CDT
- Tues. Sept. 15, 2020 | 12:00 – 3:30 pm CDT

Wastewater Collection and Treatment System Design

- Mon., Sept. 14, 2020 | 10:00 am - 1:30 pm CDT
- Tues. Sept. 15, 2020 | 10:00 am - 1:30 pm CDT

Small Commercial Solar Photovoltaic Energy Systems

- Tues., Sept. 15, 2020 | 8:30 am - 3:50 pm CDT

Advanced HEC-RAS Modeling

- Wed., Sept. 16, 2020 | 8:30 am - 12:30 pm CDT
- Thurs. Sept. 17, 2020 | 8:30 am - 12:00 pm CDT

Erosion and Sediment Control

- Wed., Sept. 16, 2020 | 11:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020, 11:00 am - 2:00 pm CDT

International Building Code

- Wed., Sept. 16, 2020 | 10:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020 | 10:00 am - 2:00 pm CDT

Complying with Fire Protection and Building Codes

- Mon., Sept. 21, 2020 | 8:00 - 11:35 am CDT
- Tues., Sept. 22, 2020 | 8:00 am - 12:05 pm CDT

Designing for Accessibility under ADA Standards and IBC

- Tues., Sept. 22, 2020 | 8:30 am - 4:30 pm CDT

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Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states. It offers 6.5 HSW continuing education hours to landscape architects in most states. We will not be seeking landscape architect course approval in Florida, New Jersey or North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration Site Design

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Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

Tuition
() **I will be attending the live webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.
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