Principles of CSS



Context Sensitive Solutions Workshop Charleen A. Zimmer, Zan Associates March 9-10, 2010

What Is the Context? Who Are Stakeholders?



What Is the Context? Who Are the Stakeholders?



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Another Exercise??

First Step Is Understanding Context

- Identify physical, environmental, social, cultural, aesthetic and transportation elements early
- Understand community values before beginning design talk to the people
- Try to design from building front IN, not centerline OUT

Environmental Context



Yellowstone National Park - WY



Historic Context



Paris Pike - Kentucky



Architectural Context



Social Context



Little Fork River Bridge – Hwy 65



Business Context



Transportation Context

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"CSS" is called a lot of things

- ITE calls it "Harmonization"
- Maryland DOT calls it "Thinking Beyond the Pavement"
- Massachusetts DOT calls it "Smart Transportation"
- NJ DOT calls it "Common Sense Design"
- Missouri DOT calls it "Practical Solutions"

CSS Includes:

- Complete Streets
- ADA Transition Plan
- Value Engineering
- Hear Every Voice
- Design Flexibility
- Return on Investment
- CSS is a way of thinking, not a particular type of project

IT FITS: ÒLies Gently on the LandÓ





IT WORKS:

For ALL modes (including ADA)



It Pays (Return on Investment)

- Increased investment up front may decrease costs later.
- Lower benefits over a longer period of time may be greater than delayed higher benefits.



It Reflects Community Values



Star Tribune

"...a duty that challenges not only [Mn/DOT's] engineering, but its citizenship."

Why?

TransportationI s A Tool for Building Communities ("Place making" and Quality of Life)



What Is Quality of Life?

Signs of Successful Community

- Active, vital, special uses and activities
- Safe, historic, attractive, environmentally sensitive
- Walkable, accessible, connected
- Neighborliness, socializing

Source: Project for Public Spaces

To Build Quality of Life, You Must:

- Understand the character of the **PLACE** you are working in and the **PEOPLE** you are working with.
- Understand the type of **COMMUNITY** these people want to live in.
- Understand the community's VALUES.
- Then design to accomplish those values.

Mn/DOTÕ SIX PRINCIPLES

Balance

Interdisciplinary Team



All Modes



Public Involvement



Aesthetics



Design Flexibility



Principles of CSS

1. Balance safety, mobility, community and environmental goals in all projects.

Cost is important too



Balance Through Network Changes

- Gaps in Network
- Road Use Budget
- Mobility Goals
- Access
 Management



Balance Through Alignment Changes



Balance through Design



Balance Through Cross-Section Design


Balance with Aesthetic Design/Landscaping



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2. Involve the public and affected agencies early and continuously.



LISTEN



Public participation is two-way communication.

Understand Different Points of View

- "This is an arterial highway with some houses and businesses alongside." – *Transportation Professional*
- "This is a big busy street that runs through our neighborhood where people drive too fast." – *Resident*
- "This is the lifeblood of my business your project will kill my business." – *Business Owner*

BE HONEST

Public participation without integrity is worse than no public participation at all.

ATTITUDE IS EVERYTHING

Believe in involving the public and treat everyone with respect - no matter what.

BUILD OWNERSHIP

"I became a team player because I was on the team."

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3. Use an interdisciplinary team tailored to project needs.



TH 61 - Gooseberry Falls



TH 61 - Gooseberry Falls



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4. Apply flexibility inherent in design standards.





Source: Webster's Dictionary

PENNDOT: Smart Transportation

Land Use Based Design *Guidance* in lieu of Functional Classifications.

PENNDOT: Smart Transportation

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City of Minneapolis

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Design Guidelines for Streets and Sidewalks



A C C E S S MINNEAPOLIS

Ten-Year Transportation Action Plan

February 22, 2008

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Questions to Ask:

- Does the design speed fit the context?
- Does the functional class fit the context?
- Have I talked to the right people?
- How can I reflect community values while meeting transportation need?
- Have I defined the problem properly?

Have I Considered All Opportunities?

- Network
- Alignment
- Roadway Cross Section
- Intersections and Interchanges

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5. Address all modes of travel.



Walk In Their Shoes



Ride the Bus

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Ride a Bicycle



Try Out a Wheelchair



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Consider Intermodal Connections



Place Characteristics: Land Uses



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6. Incorporate aesthetics as an integral part of good design.



Sometimes Landmarks Appropriate



A Little Green Can Make a Big Difference





Some Things to Remember



CSS Is About Building Better Communities

Project Objectives



MUST Reflect Community Values

Remember:

Success is achieved with a collaborative process that continually involves multiple agencies and stakeholders.



P2 & CSS Are Intertwined

You can't do context sensitive solutions without good public participation.

You can't do good public participation without the tools and approach of context sensitive solutions.





Source: Webster's Dictionary

There Are a Lot of Resources



CSS Avoids the Rework Cycle



We Do CSS Because:

• It enhances livability and sustainability of communities – creates asset for community.

- It builds community support.
- People will accept no less nor should they.
- It is simply good design practice.
Coming Next

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- Achieving Community Objectives through Design (design flexibility)
- Design Workshops