

City of Fitchburg N. McGaw Neighborhood

Neighborhood Design Principles

Neighborhood Design Workshop
May 22, 2008

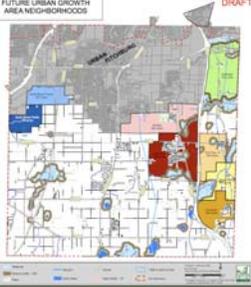


Fitchburg Growth Policies

Plan for 75 acres per year of development

7 units per acre residential target density

“Balanced” neighborhoods



Source: Draft City of Fitchburg Comprehensive Plan

Balanced Neighborhoods

“An **integration** of compatible uses”

“A **mix of residential densities** - low density, medium density, and high density will be encouraged.”

“**Mix use areas** will include commercial, business, and residential units in higher density areas, to promote live-work areas and offer day to day needs within a local neighborhood.”

Source: Draft City of Fitchburg Comprehensive Plan

Balanced Neighborhoods

“Neighborhoods offering a more completely coordinated land use, open space, and transportation patterns will be more marketable to a greater diversity of residents

however

it is also understood that characteristics of some neighborhoods may limit the creation of a full balanced neighborhood.”

Source: Draft City of Fitchburg Comprehensive Plan

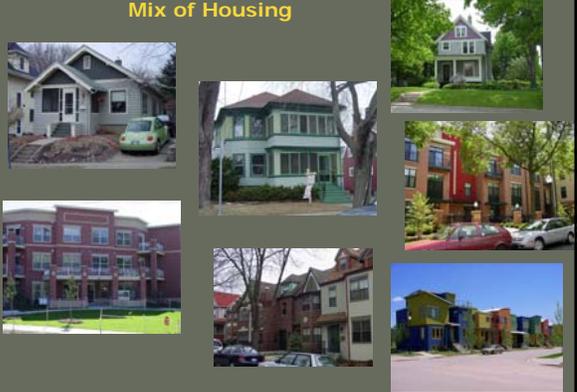
Balanced Neighborhoods

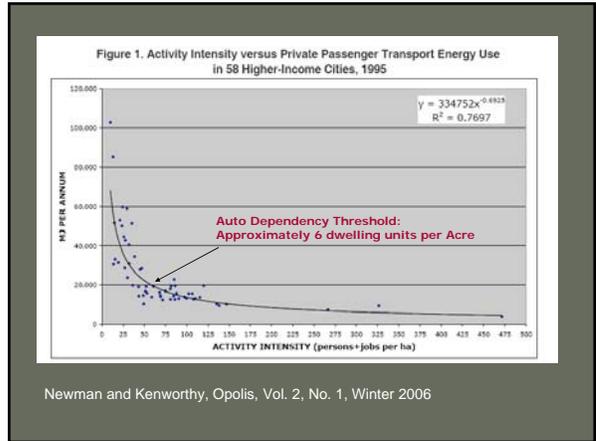
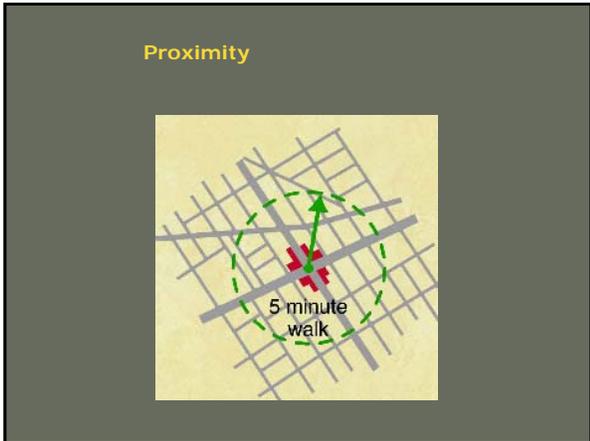
Housing choices for diverse families and households that are **located close** to public and semi-public spaces, commerce, recreation, and civic and cultural activities, which encourages walking, bicycling and social interaction

- MIX OF HOUSING
- PROXIMITY
- MIX OF USES
- FUNCTION
- LOCATION



Mix of Housing





"Transit-Friendly" Threshold
Approximately 12-15 units per acre

Boulder, CO
 12 units per acre

Lincoln Institute of Land Policy
 Visualizing Density
 www.lincolinst.edu

Density alone is not enough

Location
 Design

DIVINE COUNTY

Rail Corridors
 Environmental Corridors

Practically most cities are located on rail corridors

Urbanism
 Opportunities for growth

Transit corridors
 Rail Corridors

Resolution R-30-07
 Favor development along rail lines

Professor Phil Lewis

North McGaw Neighborhood

Proximity
 Retail Potential

Shopping Civic
 Employment
 Recreation

McGaw 428 acres

Design Matters

Same Density - 12 units per acre
 Different Neighborhoods

Lincoln Institute of Land Policy
 Visualizing Density

Street Network

McGaw Farm Park

Urban Design

Buildings oriented around pedestrian- and bicycle-friendly streets

Sense of Place





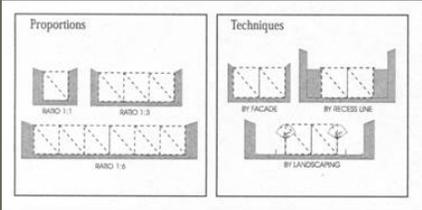
- Buildings face street
- Buildings open to street
- Human scaled
- Articulated buildings
- Defined, safe pedestrian space
- Repeating Patterns
- Quality Materials

Public Spaces





Sense of Enclosure



Sustainable communities preserve natural environments by:

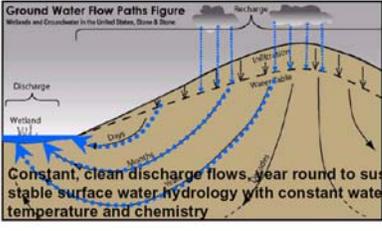
- preserving working landscapes and natural systems within and surrounding metropolitan regions, and
- building and urban design that integrates nature into urban communities.



Protecting Water Systems

Historical Patterns of Hydrology

Recharge Zone: Uplands
 Discharge Zones: Lowlands- rivers, streams, ponds, wetlands



Constant, clean discharge flows, year round to sustain stable surface water hydrology with constant water temperature and chemistry

Source: Jim Patchett

Water in Contemporary Urban, Suburban & Rural Environments




Traditional Stormwater Management Approach:

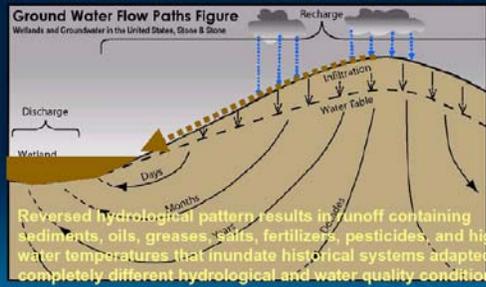
Collect and convey water away from the site just as quickly and efficiently as the law will allow through enclosed storm sewer systems designed with concentrated points of discharge that generate a velocity and volume of flow that is nearly impossible to mitigate.

Source: Jim Patchett

Contemporary Hydrology

Upland becomes discharge zone

Natural wetlands are expected to function as recharge zones



Sustainable water resource management: decentralized system design

- Capture rainfall
- Diffuse flow
- Cleanse
- Absorb on-site

Restore historically stable patterns of infiltration and groundwater-dominated hydrology

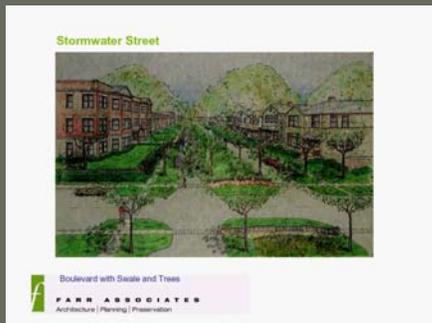
Rain Gardens



Green Roofs



Green Streets



ModelBlock Exercise



Purpose:

1. Communicate neighborhood design principles
2. Increase capacity of Steering Committee to evaluate and guide neighborhood plans
3. Create a resource for future use

Model Block Exercise

Model Goals:

- Target density: 7 dwelling units per residential acre
- Mix of development types: commercial (employment, retail), residential, park and open space, civic.
- Mix of housing types: large single family, small single family, town house, apartment.
- Interconnected street network
- Walkable destinations - try to locate destinations within quarter to half mile walking distance



Target Sites



Average Densities



McKee Park area

Lots: 91' X 150'
One unit per lot
Density: 2.5 units per acre



Average Densities



Madison - Regent

Lots: 50' X 120'
One unit per lot
Density: 5.25 units per acre



Average Densities



Madison - N. East Side

Lots: 33' X 130'
Approx. 1.5 units per lot
Density: 11 units per acre



ModelBlock Exercise Steps

- Make site observations
- Designate open space corridors & networks
- Designate primary street network
- Designate neighborhood "center"
- Designate land uses
- Designate blocks
- Place buildings
- Record information