VISIONING THE SOUTH CEDAR CORRIDOR:

A Form Based Code Study for the Design Lansing Comprehensive Plan

Michigan State University

Urban and Regional Planning Practicum

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Project Goals

Explore the potential to transform the South Cedar Corridor to follow a form-based code.

- Determine current conditions
- Create a vision through the use of case studies and build out analysis
- Project economic impacts through a tax assessment across multiple development scenarios
- Provide recommendations to the City of Lansing to ease the transition from current zoning to form based code



Design Lansing

- OCity of Lansing Comprehensive Plan
- oAdopted April 9, 2012
- oFocused on implementation of Form Based Code (FBC) and placemaking principles
- OCorridors were chosen by citizens to be made more active pedestrian friendly

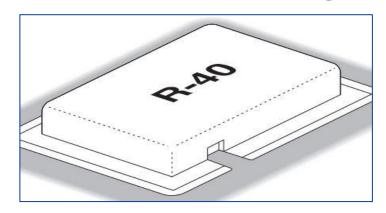


What is Form Based Code?

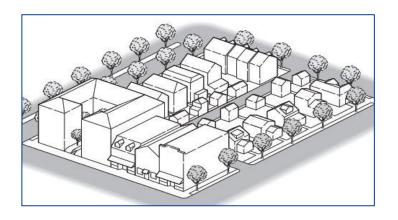
Emphasizes:

- Design standards rather than separation of uses
- Higher density, mixed-use development
- Pedestrian friendly environments

Conventional Zoning

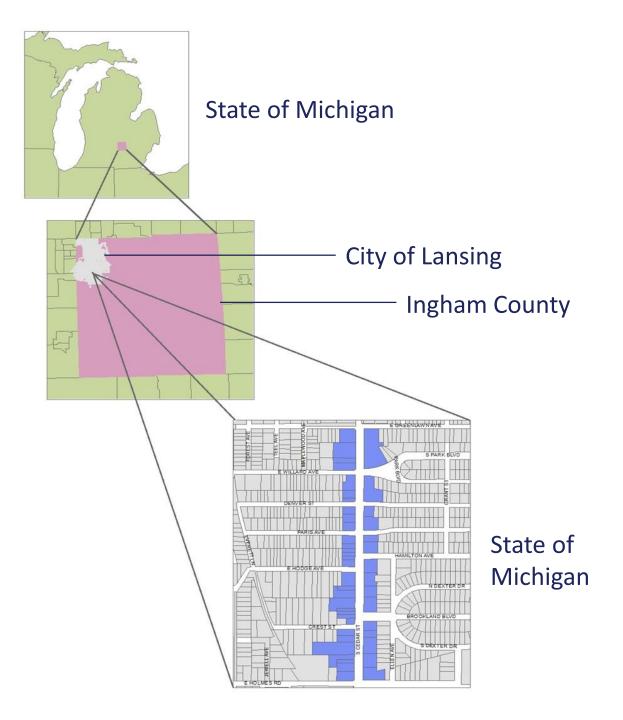




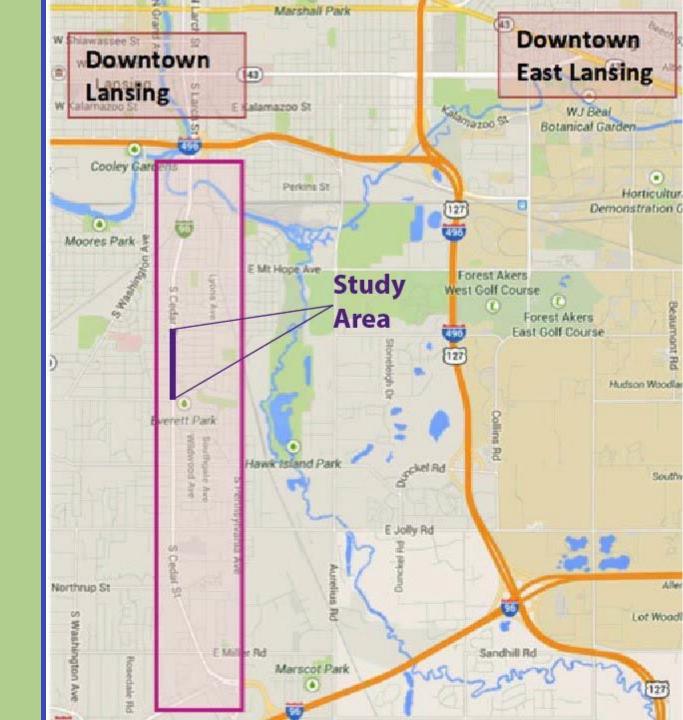




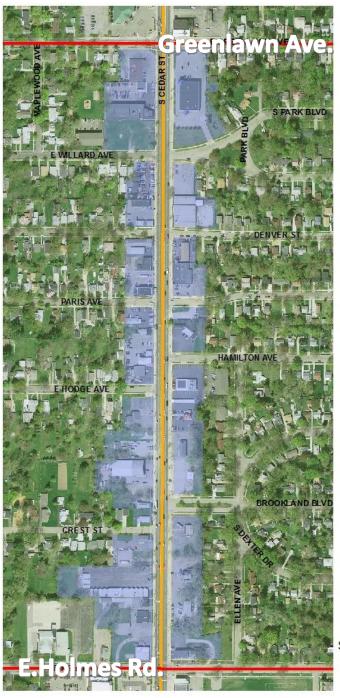
Study Area Location within the Region



Study Area Location within Lansing



Study Area

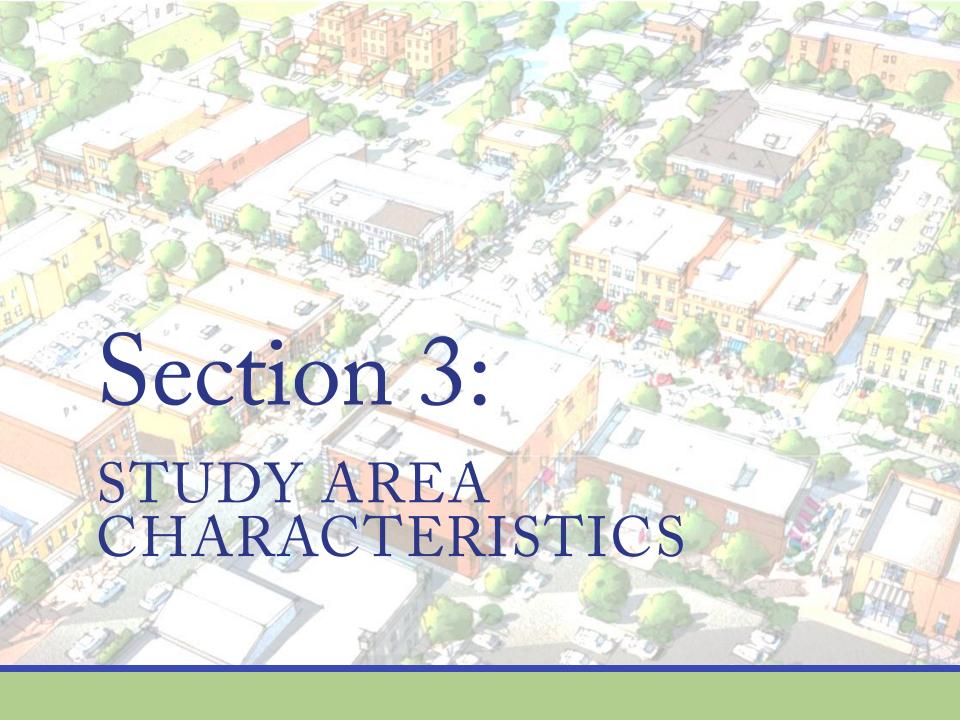


Legend

Study Area Parcels

Study Area Boundaries

South Cedar



Key Characteristics

- Business Corridor
- Dominated by auto service & sale businesses
- Medium to large parcels with deep setbacks
- Large areas dedicated to parking



Large setbacks and Parking Space



Auto Dealership



Quality Dairy and Rite-Aid



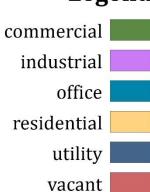
Music Manor

Existing Land Use

- Consistent with existing, mainly commercial zoning
- Limited residential usage



Legend



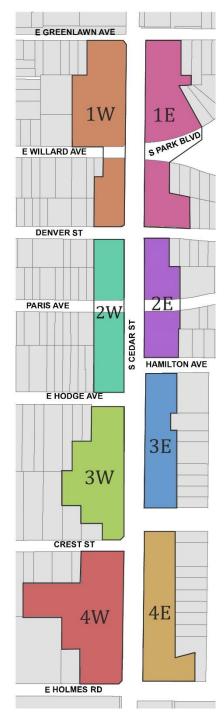
Vacancy Inventory

- 46 total parcels
- 67% occupied
- 13% vacant with structure
- 13% vacant no structure
- 7% partially vacant



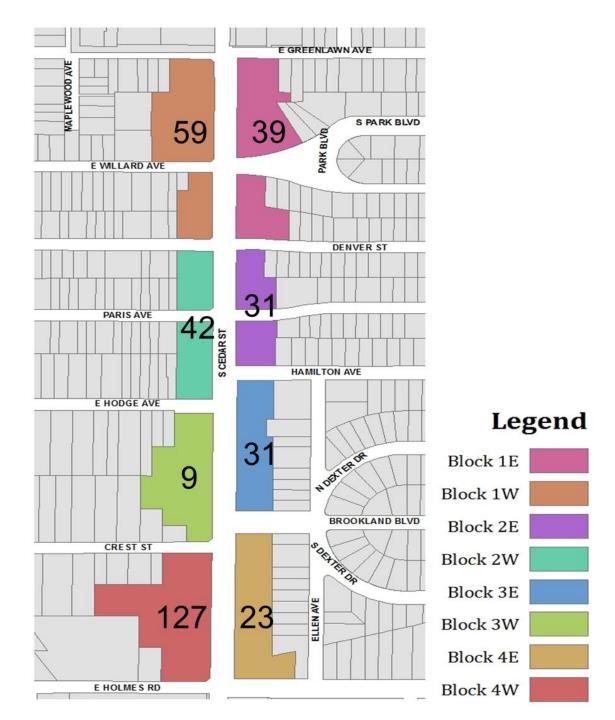
Units of Analysis

- •Established by the practicum team to have comparable frontage lengths along South Cedar
- •To better manage and compare data across the study area



Parking Inventory

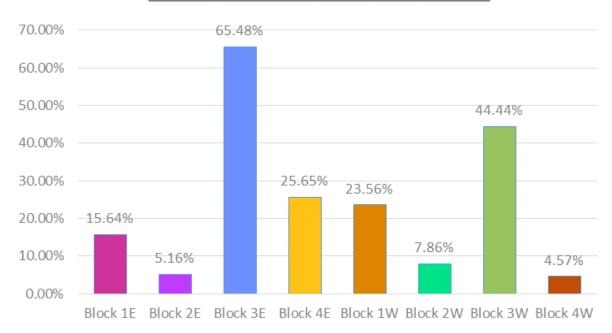
- Parking spaces counted by block
- •361 Total Spaces
- •Auto sales lots were not included in the count



Parking Usage Study

 Performed to understand the potential to reduce parking coverage to match form based code standards

Average Parking Usage by Block



Transportation

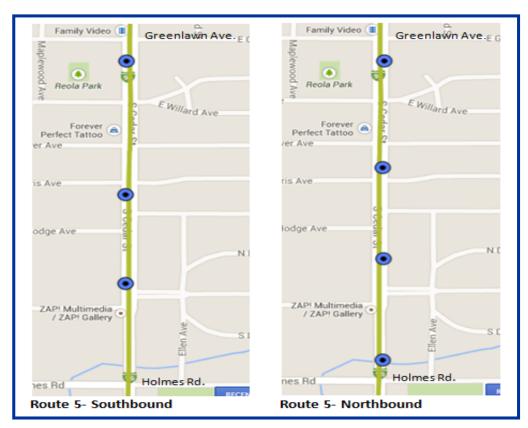
- Auto-oriented state trunkline
- Controlled by
 Michigan Department
 of Transportation
 (MDOT)
- High traffic from 8
 AM to 8 PM,
 characteristic of a
 Business Corridor



Intersection of South Cedar Street and Holmes Road

Public Transit

- Serviced by
 Capital Area
 Transportation
 Authority
 (CATA) Route 5
- Route 5 ridership
 has increased over
 the past five years



Study Area CATA Bus Stops

Table 2.8CATA Route 5 Ridership, 2009-2013					
Fiscal Year	Riders	% Change			
2009	588,618				
2010	612,757	4.1%			
2011	654,100	6.7%			
2012	713,580	9.1%			
2013	731,208	2.5%			

Alternative Transportation

- Only two
 crosswalks, one at
 Greenlawn Ave.
 and the other at
 Holmes Rd.
- Sidewalks present but lack barriers between pedestrians and automobiles





Study Area Sidewalk

Legend

crosswalks



study area parcels



Zoning	Business Corridor (Existing)	Urban Mixed-Use Corridor (Proposed Zoning)	Activity Corridor (Proposed Street Typology)	General Urban (Form Based Code Model)
Block & Lot Width	Medium Block sizes, Lot sizes vary from small to large	To be determined by City of Lansing	N/A	Walkable blocks, predominately in a grid.
Street Characteristics	Multiple driveway curb cuts, medium to large parking lots, little/no parking screening	Shared driveways and cross-access easements along the rear property line	3-5 lanes or 2-4 lane boulevard. Center turn lanes, center lane median, crosswalk bump-outs, on- street parking	All right-of-way have curb, sidewalk, and on-street parking.
Building Height	1 story	2-4 stories	N/A	1-3 stories
Building Siting	Variable	Front setbacks 0-15ft	Buildings built close to the right of way edge and oriented toward the street.	Little to no setbacks for commercial. Some setback for residential
Building Coverage	N/A	80% Maximum coverage	N/A	40-95% for commercial & 30-75% for residential
Coverage of Front Property Line	Variable	To be determined by City of Lansing	May include parallel, angle or reverse-angle on-street parking spaces. Off-street parking should be provided in the rear.	50-100% for commercial
Use	Commercial/Office	Retail, personal services, office, live-work, and selected light industrial with special approval	Provide access to entertainment, businesses, and employment for motorists, transit users, and pedestrians	Commercial & Residential - single & multiple-family

Cincinnati, Ohio

- Example of citywide form based code
- •Development meets Lansing's goals for retail and entertainment activity
- °Consideration: Cincinnati had existing infrastructure to be preserved



Mixed-Use Corridor

Birmingham, Michigan

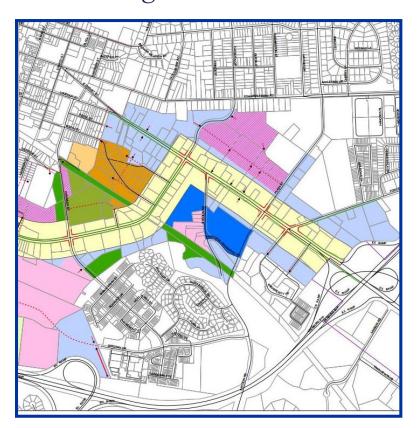
- Example of an overlay form based code
- Demonstrates pedestrian friendly corridors
- Consideration: Development targets a different demographic than goals of Design Lansing



Triangle District

Leesburg, Virginia

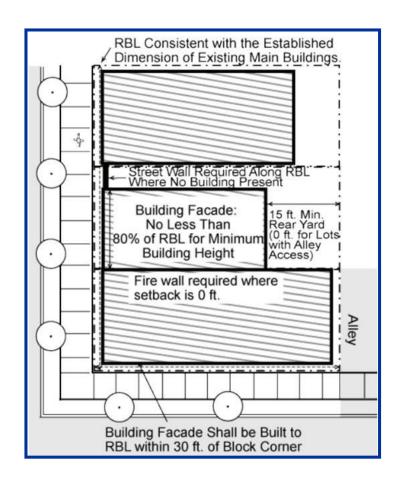
- Example of an overlay district
- Demonstrates potential of form based code beyond the corridor
- Consideration: Leesburg experienced population growth and is more affluent than Lansing

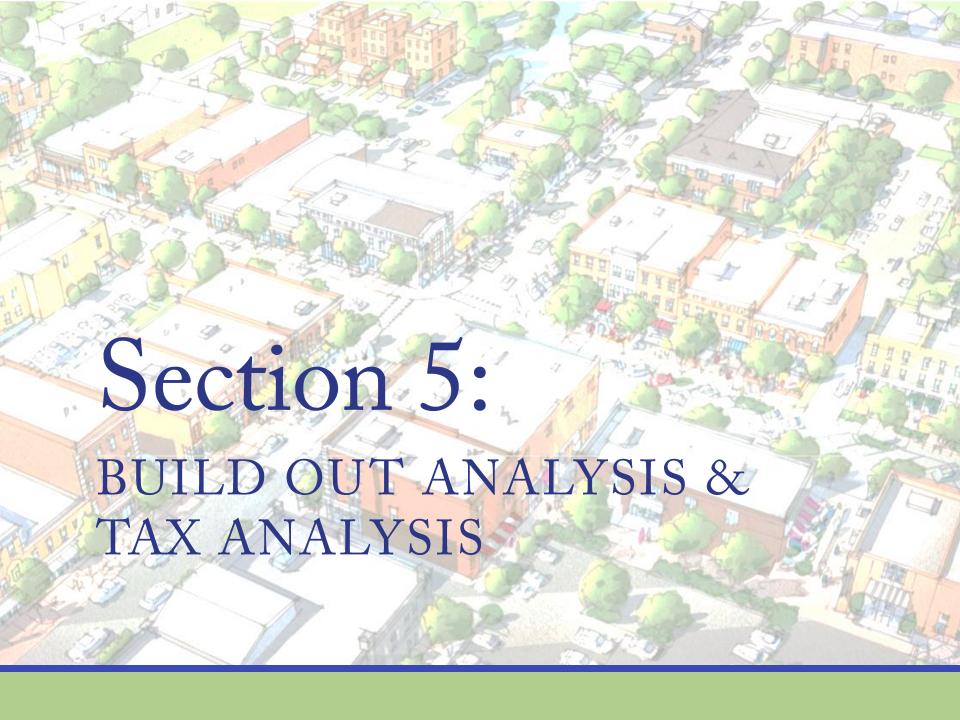


Crescent District

Grandville, Michigan

- Example of hybrid zoning
- Prioritizes areas of the city for form based code
- Plan includes detailed development requirements
- Conversation: Grandville has long standing programs that help finance development.





Build Out Analysis

• Projected using form based code standards of 40% and 80% building coverage

40% Building Coverage

328,378.32 sq. ft.

80% Building Coverage

656,756.64 sq. ft.

X 2 stories

656756.64 sq. ft.

1,313,513.28 sq. ft.

OR

X 3 stories

985,134.96 sq. ft.

1,970,269.92 sq. ft.







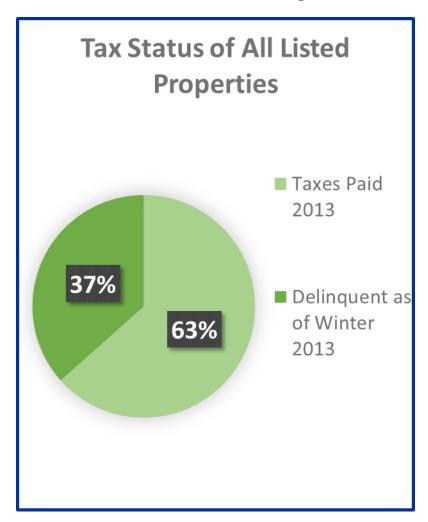
Tax Analysis

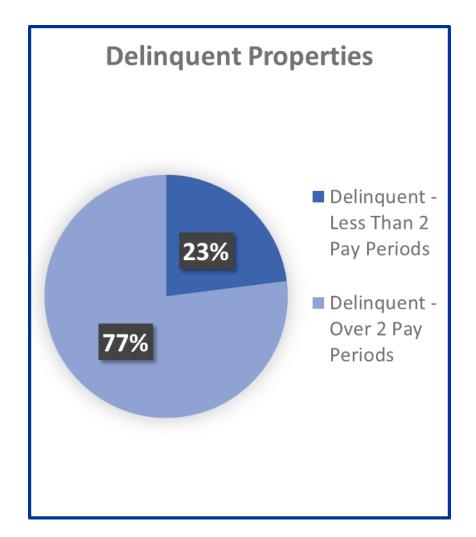
- Block 1W and 1E generates the most tax revenue
- The two most common tax rates in the study areas are non-homestead (NH) and commercial personal (CPP)

Tax Revenue by Block, 2013



Tax Analysis







Illustrative Plan

Block 4W was selected based on high exposure at the Holmes and S. Cedar intersection and potential for future development

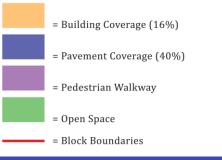


Illustrative Plan

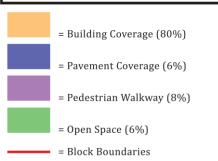












Illustrative Plan

- Projections based on 40% and 80% build out, for 1, 2 and 3 story development scenarios
- Non-homestead
 (NH) and
 commercial personal
 (CPP) tax rates

Property Tax Revenue Projections- Block 4W



Blocks by Build Out Scenario



Short-Term

Transportation

- Walkability Study
- Ridership Study by Capital Area Transit Authority (CATA)
- Conversations with MDOT about potential for changes along the trunk line

Financial Impact

- Market Study
- Pursue Programs that Incentivize Investment
- Establish a Corridor Improvement Authority

Long Term

Build Out

- Increase Building Coverage
- Reduce Parking; Reorganize Parking
- Encourage Infill Development
- Partner with Ingham County Land Bank

Final

Final Recommendations

- Postpone adoption of form based code within the study area. Meanwhile:
 - Explore other locations stated in Design Lansing for adoption
 - Allow time to establish programs and for programs to mature before development
 - Perform studies from previous recommendations to help identify characteristics that can be better prepared for form based code adoption

Thank You.

Acknowledgments:

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