## Visioning the South Cedar Corridor: A Form Based Code Study for <br> the Design Lansing Comprehensive Plan

## Michigan State University

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## Section 1:

PROJECT GOALS

## 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


# Section 2: <br> BACKGROUND 

# Design Lansing 

-City of Lansing Comprehensive Plan
-Adopted April 9, 2012
$\bigcirc$ Focused on implementation of Form Based Code (FBC) and placemaking principles
-Corridors 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



## Form Based Code Zoning



## Study Area Location within the Region



## Study Area Location within Lansing



## Study Area



## Legend

Study Area Parcels
Study Area Boundaries
$\qquad$

## Section 3:

## STUDY AREA CHARACTERISTICS

## Key <br> 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


Quality Dairy and Rite-Aid


Auto Dealership


Music Manor

## Existing Land Use

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



## Legend

commercial
industrial

office $\qquad$
residential $\qquad$
utility $\square$ vacant

## 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


Block 1E $\square$
Block 3E $\square$
Block 3W
Block 4E
Block 4W

## 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 2.8--CATA Route 5 Ridership, 2009-2013

| Fiscal Year | Riders | \% Change |
| :---: | ---: | ---: |
| $\mathbf{2 0 0 9}$ | 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被 study area parcels

# Section 4: 

EXPLORING FORM BASED CODECASE STUDIES

| 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, onstreet 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 <br> - single \& multiple-family |

## Case Studies

## 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

## Case Studies

## 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

## Case Studies

## 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

## Case Studies

## 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.


Building Facade Shall be Built to RBL within 30 ft . of Block Corner

# Section 5: <br> BUILD OUT ANALYSIS \& TAX ANALYSIS 

## 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. |
| :--- | :--- |



## Tax <br> 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



## Delinquent Properties

| Delinquent Properties |  |
| :---: | :---: |
| $\mathbf{7 7 \%}$ | ■ Delinquent - <br> Less Than 2 <br> Pay Periods |
| - Delinquent <br> Over 2 Pay <br> Periods |  |

# Section 6: <br> ILLUSTRATIVE PLAN 

## Illustrative Plan

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



## Illustrative Plan


$\square$ = Building Coverage (16\%)
= Pavement Coverage (40\%)
= Pedestrian Walkway
$=0$ pen Space
= Block Boundaries

= Building Coverage (40\%)
= Pavement Coverage (26\%)
= Pedestrian Walkway (9\%)
$\square$ = Open Space (25\%)
= Block Boundaries

= Building Coverage (80\%)
= Pavement Coverage (6\%)
= Pedestrian Walkway (8\%)
= Open Space (6\%)
= Block Boundaries

## 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


## Section 7: <br> RECOMMENDATIONS

## 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


## Build Out

## Long Term

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


## 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


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