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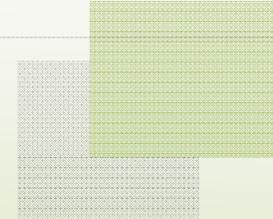


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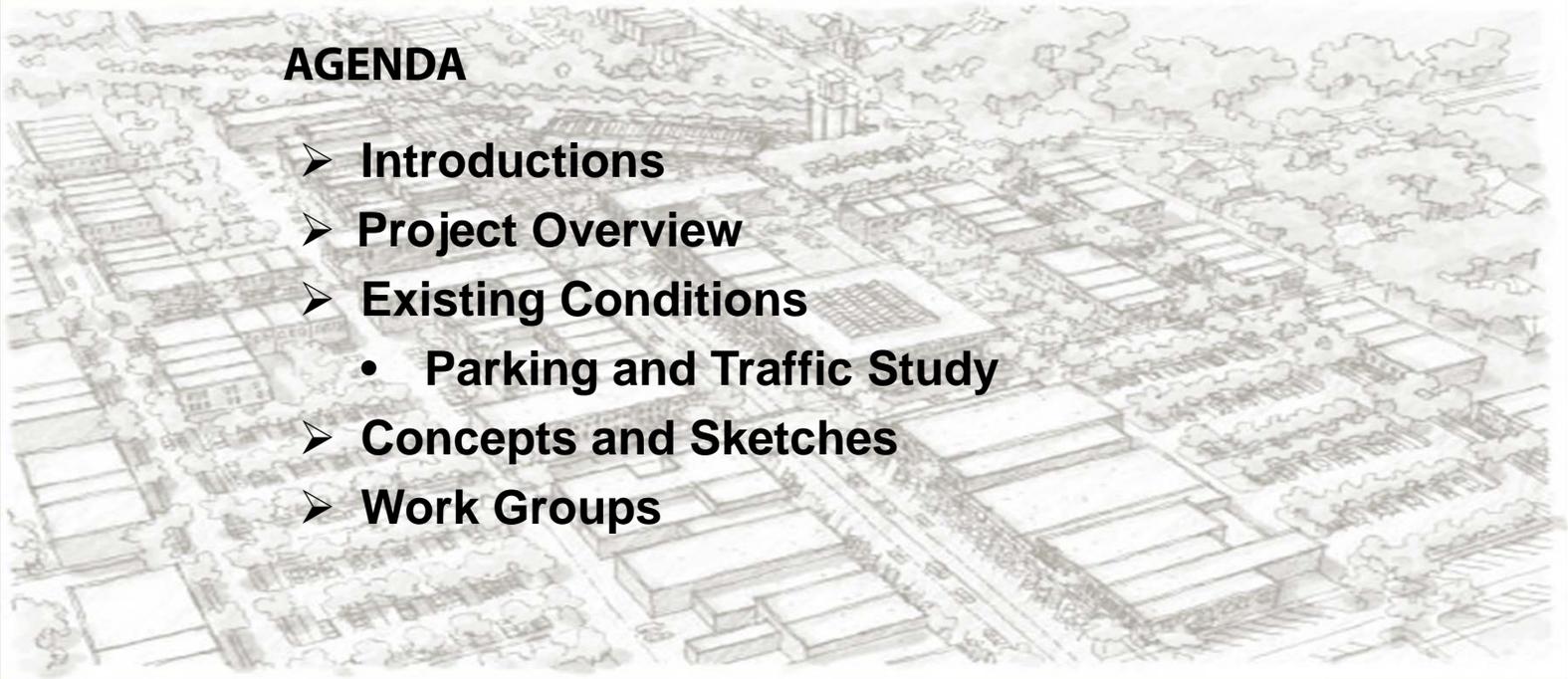
## **DOWNTOWN MAIN STREET STREETSCAPE PHASE 3 PROJECT**





## AGENDA

- **Introductions**
- **Project Overview**
- **Existing Conditions**
  - **Parking and Traffic Study**
- **Concepts and Sketches**
- **Work Groups**



### DOWNTOWN MAIN STREET STREETScape PHASE III

City of Broken Arrow Oklahoma



## DESIGN TEAM/KEY PERSONNEL



**R.L. Shears Company. PC**

Robert Shears, ASLA  
Scott Robinson, LLA  
Justin Sowell

**MKEC**

Doug Klassen, PE  
Cole Gardner

**Cowan Group Engineering**

Jeff Cowan, PE  
Sean Fairbairn, EI

**Traffic Engineering  
Consultants**

Jon Eshelman PE, PTOE

**DOWNTOWN MAIN STREET STREETScape PHASE III**

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## PROJECT OVERVIEW

- **Goal:** Design a historic themed, pedestrian scale streetscape that will provide the setting for the Downtown Broken Arrow Arts and Entertainment District.
  - Create a Destination Spot
  - Create a Sense of Place
  - Traffic Calming
- **Basis of Design**
  - City of Broken Arrow Downtown Master Plan
  - Downtown Streetscape Guidelines



### **DOWNTOWN MAIN STREET STREETScape PHASE III**

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## EXISTING CONDITIONS



### TRAFFIC AND PARKING EXAMINATION AND RECOMMENDATIONS

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## EXISTING CONDITIONS – PARKING STUDY

### ➤ Parking Space Inventory

- Main Street: 139 Spaces
- Side Streets: 135 Spaces
- Total: 274 Spaces



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## EXISTING CONDITIONS – PARKING STUDY

### ➤ Study Process

- Recorded parking space and tag number for every parked vehicle
- 15 minute Increments – 9:00am to 5:00pm
- Each block and each side of the street separately



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## EXISTING CONDITIONS – PARKING STUDY

### ➤ Findings

- Average Occupancy: 31%
- Average Duration: 58 minutes
- 562 Vehicles Served
- 33 Vehicles Parked More than 4 hours
- 16 Vehicles Parked More than 6 hours

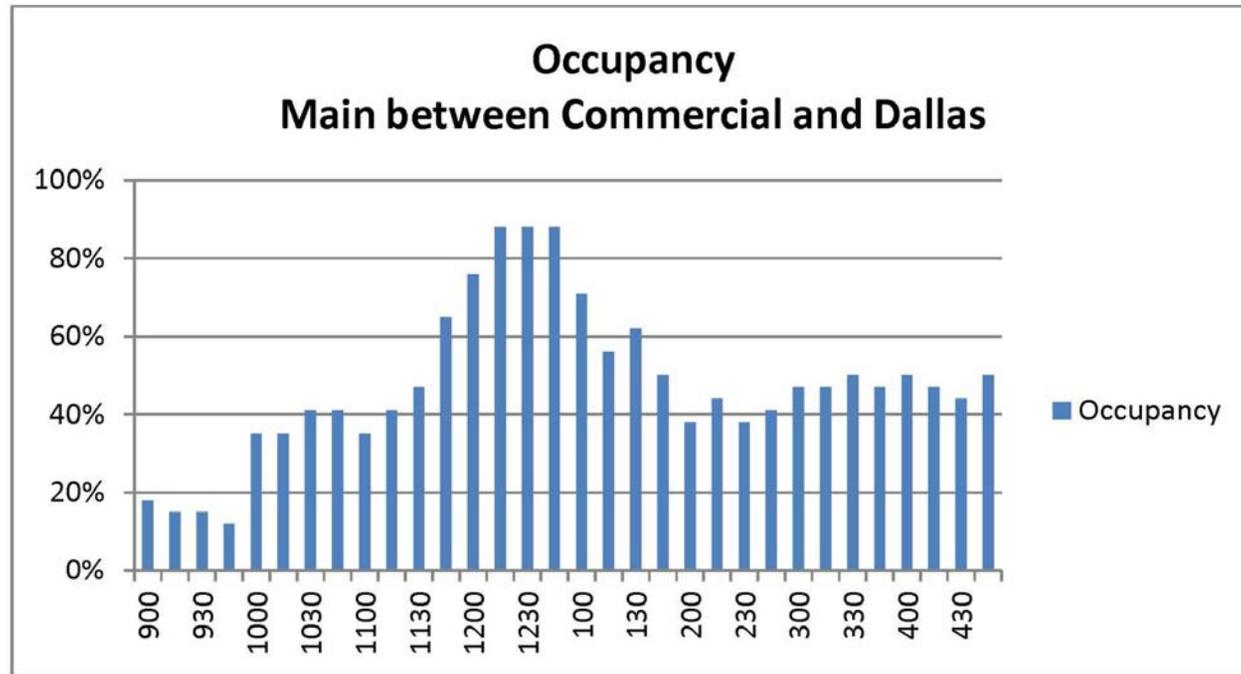


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## EXISTING CONDITIONS – PARKING STUDY



➤ 88% for 45 minutes

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## EXISTING CONDITIONS

- Four-lane, two-way traffic with angled parking on Main Street
- Two-Lane, two-way traffic with angled and/or parallel parking on all side streets within project limits
- Four intersections with traffic signals at Dallas, Commercial, Broadway, and College on Main Street



## EXISTING CONDITIONS – TRAFFIC STUDY CAPACITY ANALYSIS

### ➤ Main Street Traffic Volumes

- Weekday 9,400
- Saturday 7,100
- Sunday 3,800

### ➤ Intersection Volumes

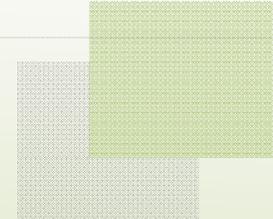
- 85% of Traffic on Main Street
- 15% of Traffic on Side Streets



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## EXISTING CONDITIONS – TRAFFIC STUDY CAPACITY ANALYSIS

### ➤ Scenarios Studied

- 4 – Lane (Current)
- 3 – Lane (Center left turn lane)
- 2 - Lane

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# TRAFFIC LANE CONFIGURATIONS

## Scenarios Studied: 2 – Lane Scenario



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# TRAFFIC LANE CONFIGURATIONS

## Scenarios Study: 3 – Lane Scenario



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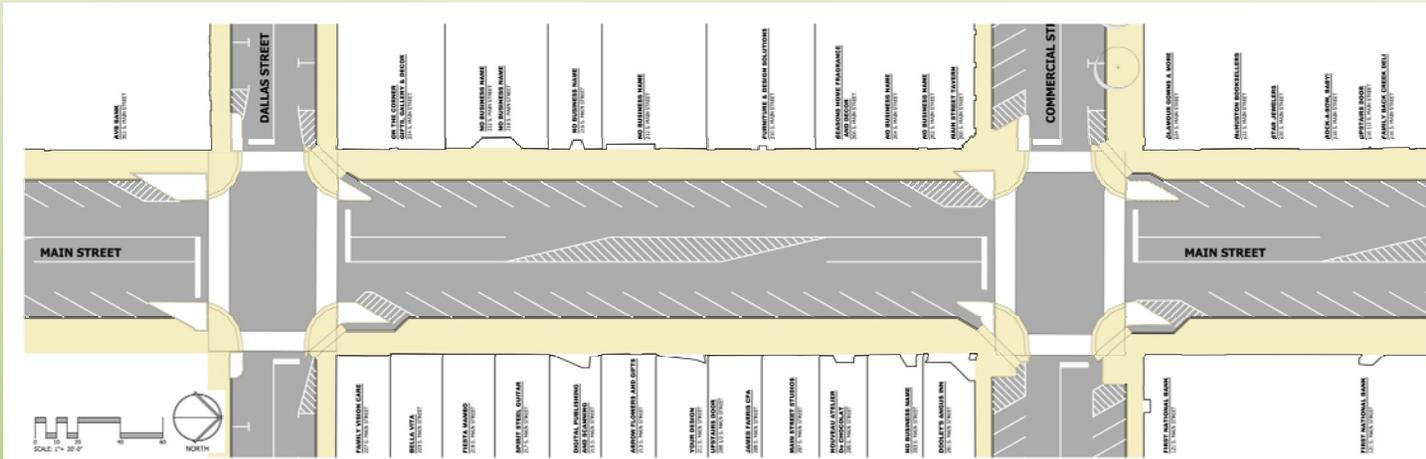
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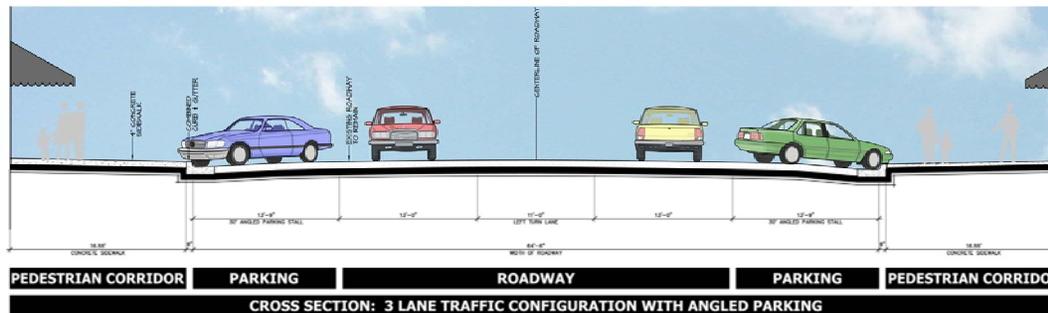
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## EXISTING CONDITIONS – TRAFFIC STUDY

### 3 – Lane Scenario - Recommended



PLAN: 3 LANE TRAFFIC CONFIGURATION WITH ANGLED PARKING



CROSS SECTION: 3 LANE TRAFFIC CONFIGURATION WITH ANGLED PARKING



City of Broken Arrow - Downtown Main Street Streetscape Phase III

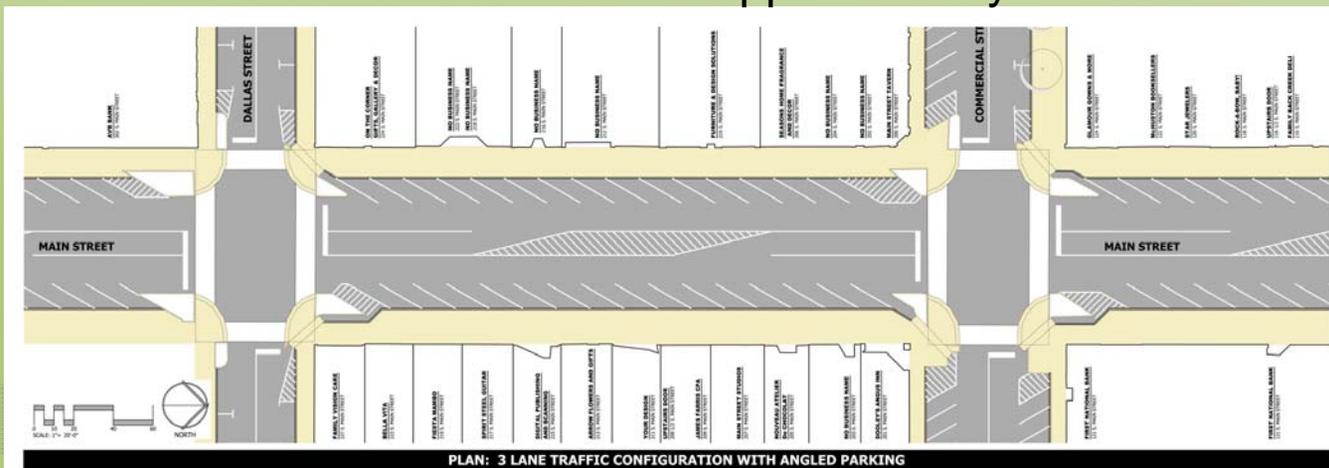
### TRAFFIC LANE CONFIGURATIONS - 3 LANE WITH ANGLED PARKING

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## EXISTING CONDITIONS – TRAFFIC STUDY

### ➤ 3 – Lane Scenario Recommended

- Adequate Traffic Capacity
- Will Reduce Speeds
- Sufficient Capacity for Future Growth
- Shorten Pedestrian Crossing Distance
- Provides for Commercial Deliveries in the Middle Lane
- Adequate Width for Parades
- Allows Sidewalks to widen to approximately 17 feet.





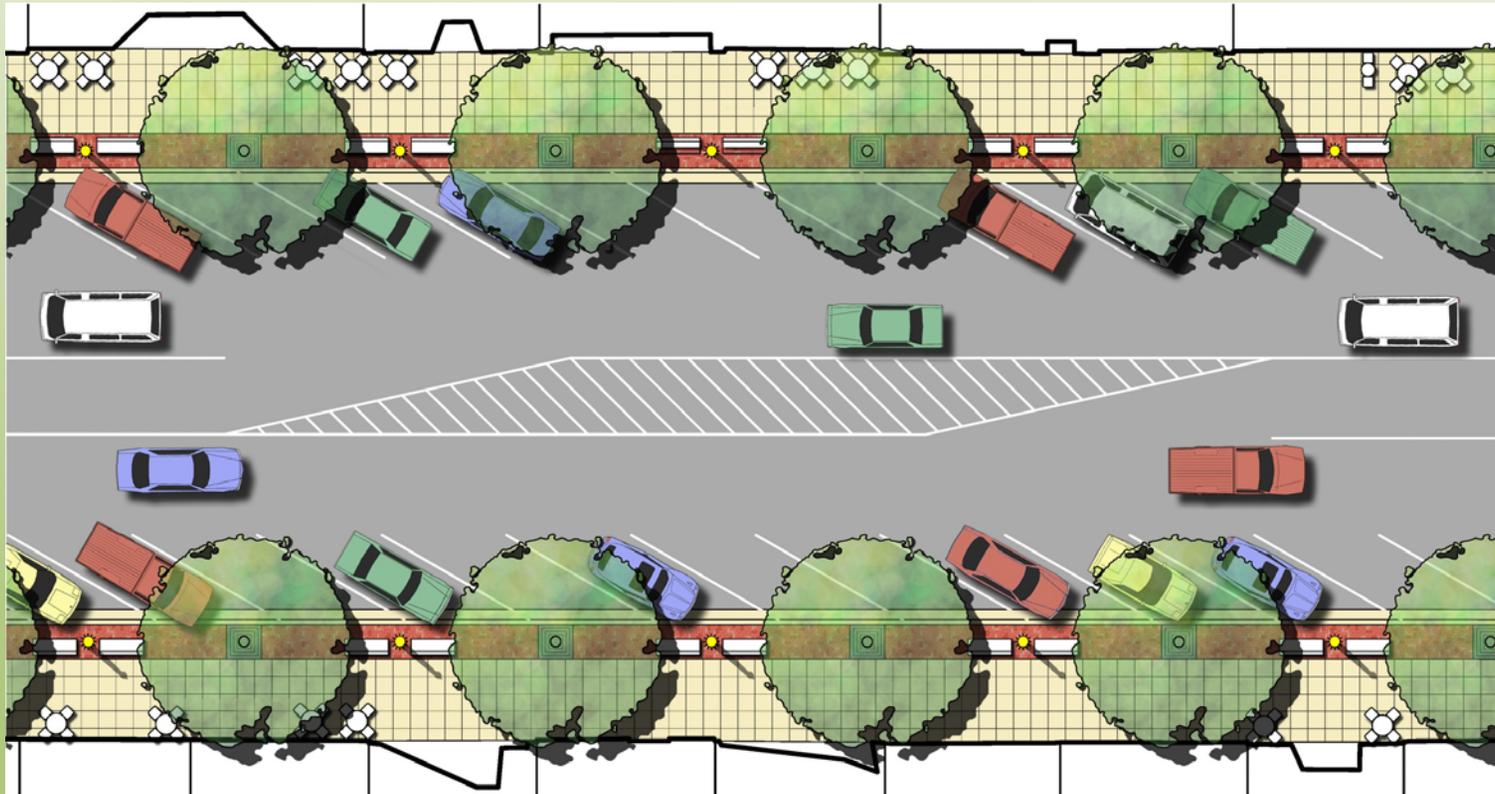
**STREETScape CONCEPTS AND SKETCHES**



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## STREETSCAPE CONCEPTS – CONCEPT 1

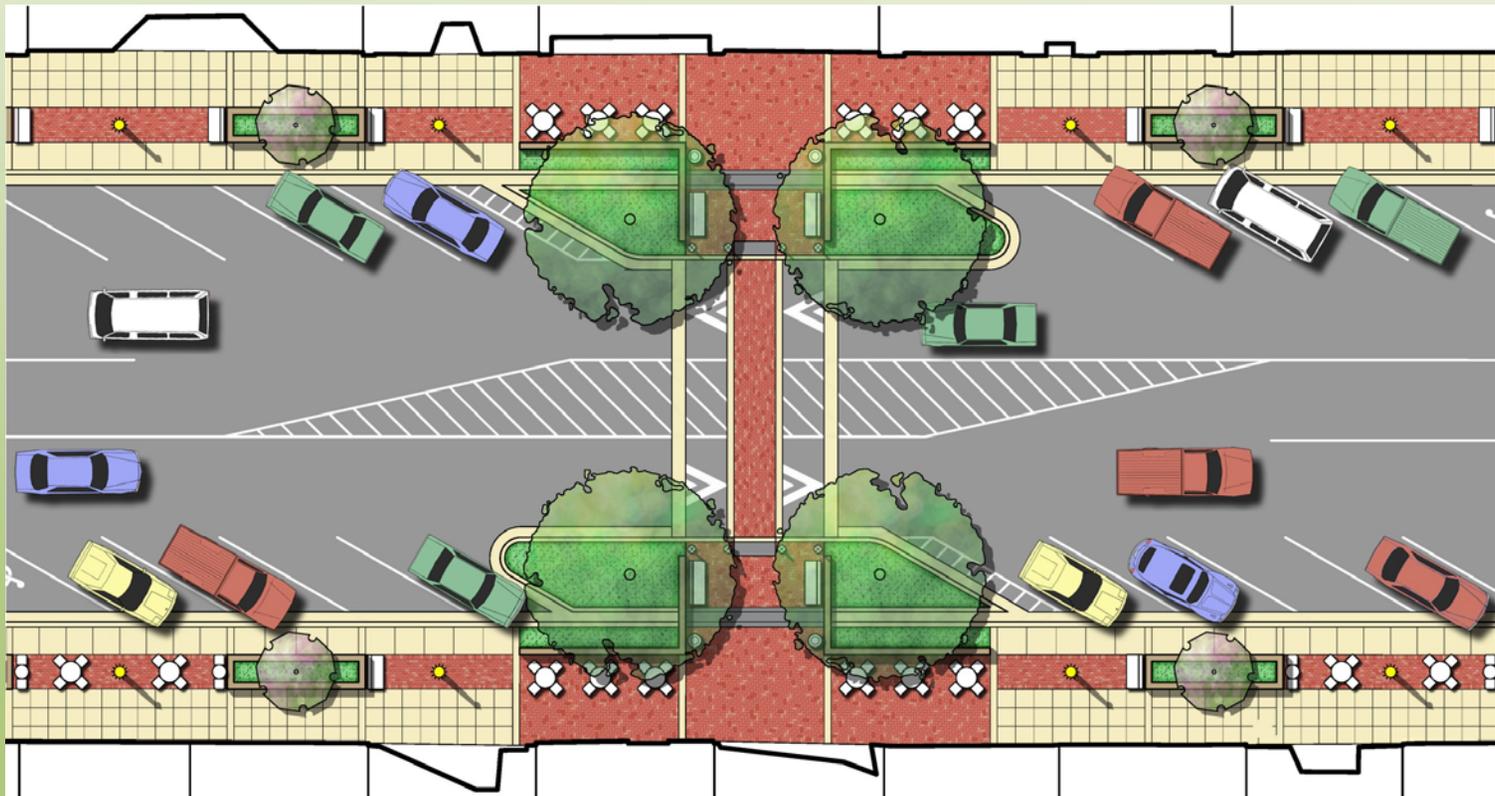




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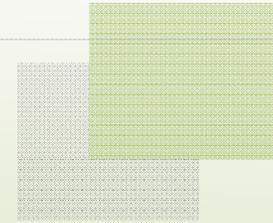
## STREETSCAPE CONCEPTS – CONCEPT 2



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## STREETSCAPE CONCEPTS – SKETCHES



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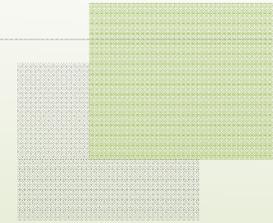
## STREETSCAPE CONCEPTS – SKETCHES



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## **DOWNTOWN MAIN STREET STREETSCAPE PHASE 3 PROJECT**

### **WORK GROUPS – QUESTIONS AND DISCUSSION POINTS**

