

# DUNN US 421 CORRIDOR STUDY

## CE 497G DEVELOPMENT OF RALEIGH, NORTH CAROLINA

CITY OF DUNN PROJECT NUMBER: 00-00-001

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ENGINEER  
CONTACT: MIKE ROSELLI  
CIVIL ENGINEERING DEPARTMENT  
NORTH CAROLINA STATE UNIVERSITY  
RALEIGH, NC 27607  
EMAIL: MAROSELL@NCSU.EDU

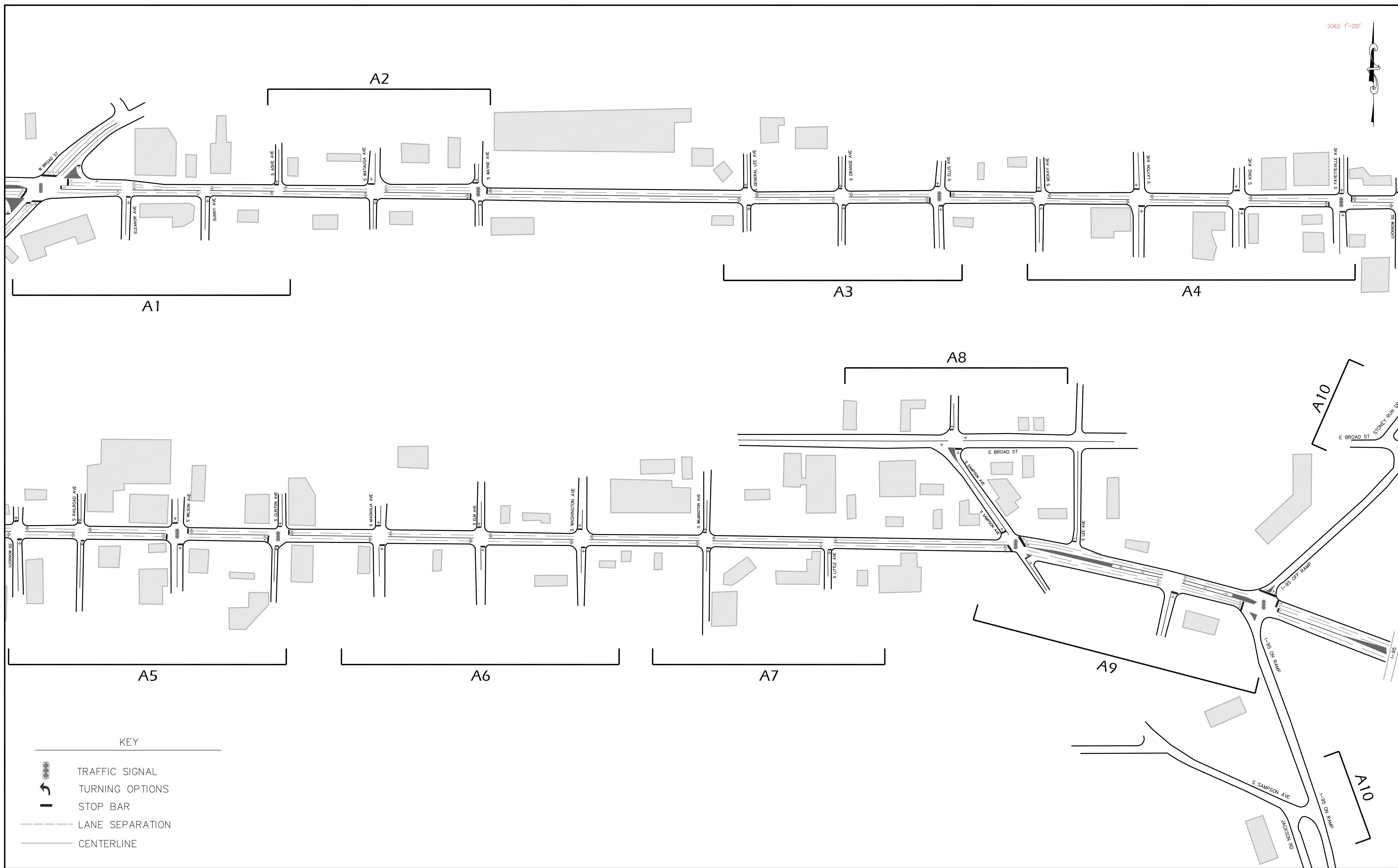
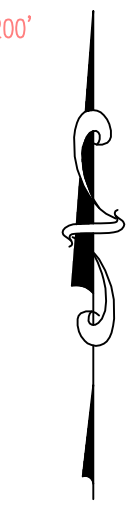
ENGINEER  
CONTACT: STUART SAMBERG  
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RALEIGH, NC 27607  
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NORTH CAROLINA STATE UNIVERSITY  
RALEIGH, NC 27607  
EMAIL: BMSTATLE@NCSU.EDU

**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

APPROVED  
CITY OF DUNN

Approved by \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_ Date \_\_\_\_\_  
Engineering \_\_\_\_\_ Date \_\_\_\_\_



KEY

- TRAFFIC SIGNAL
- TURNING OPTIONS
- STOP BAR
- LANE SEPARATION
- CENTERLINE

Acad Version : R17.0s (LMS Tech)  
 User Name : mroselli  
 Date/Time : Wed, 22 Apr 2009 - 1:26pm  
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 Current Plotstyle : B1Layer  
 Layout Tab: G1

SEAL  
 PRELIMINARY - DO NOT  
 USE FOR CONSTRUCTION

## DUNN - US421 CORRIDOR

### OVERALL EXISTING SITE WITH PLAN COORDINATION

DEPARTMENT  
 CE 497G - HIGHWAY ENGINEERING  
  
 CIVIL ENGINEERING DEPARTMENT  
 NORTH CAROLINA STATE UNIVERSITY  
 RALEIGH, NC 27607

TEAM MEMBER:  
 STUART SAMBERG      TEAM MEMBER:  
 BRIAN STATLER

TEAM MEMBER:  
 MIKE ROSELLI

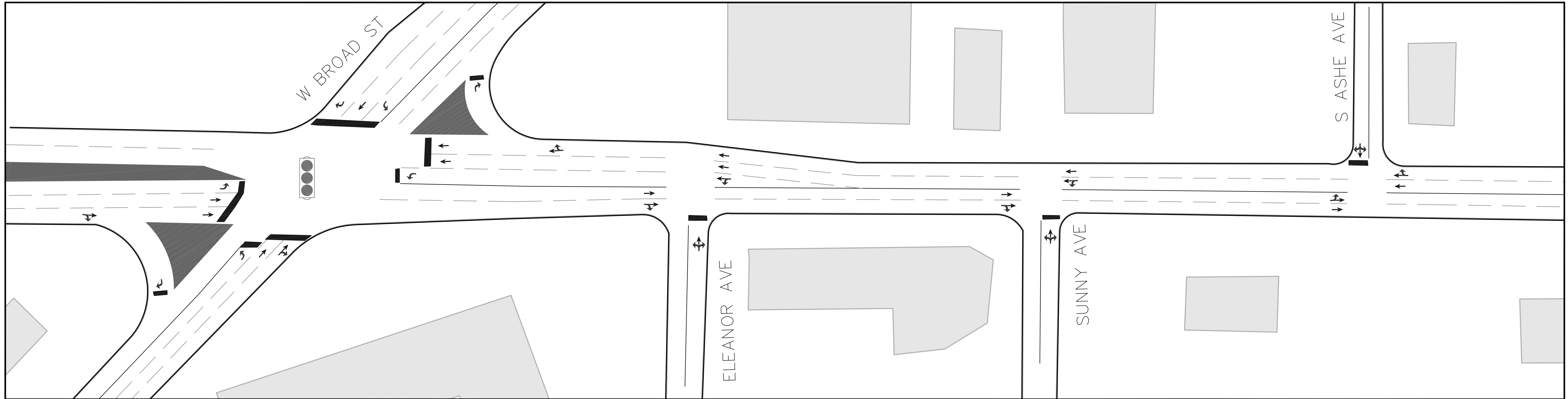
PROJECT NUMBER      DRAWING NUMBER

001

G1

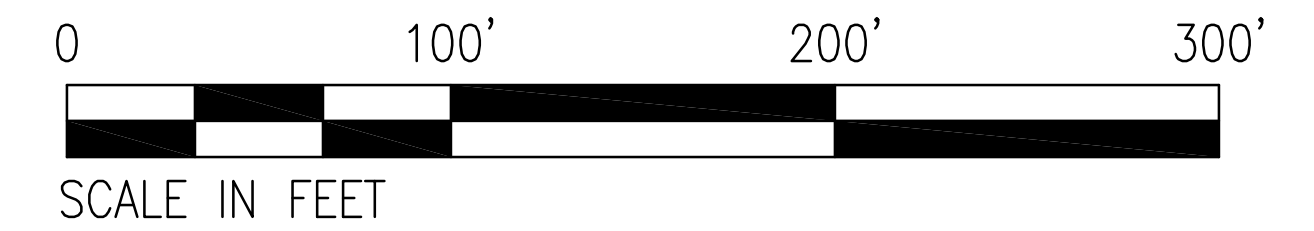
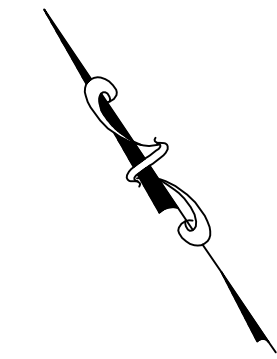
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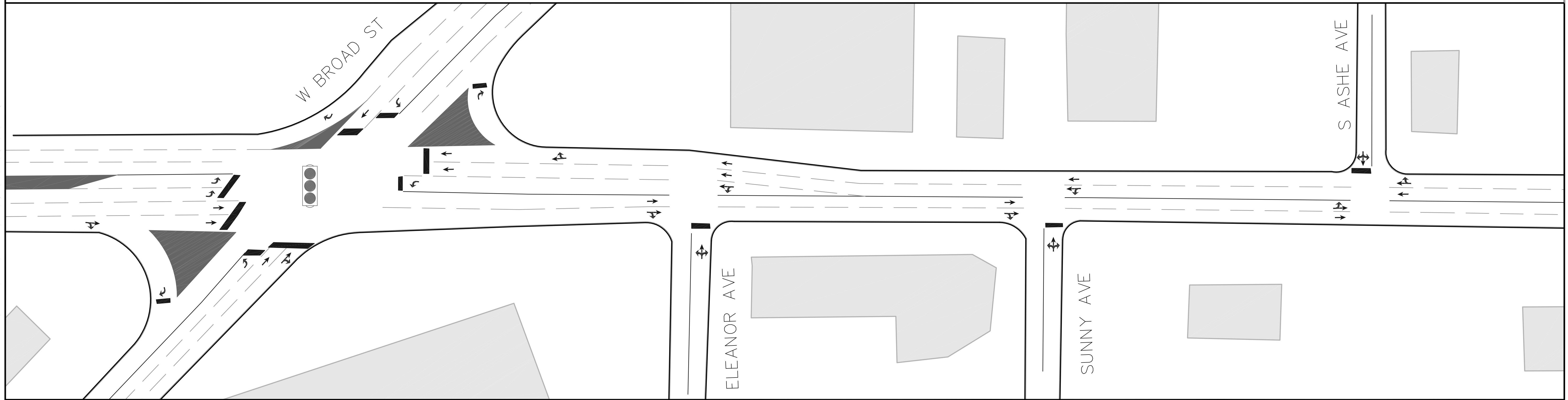


### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

#### BROAD ST TO ASHE AVE

SEAL  
 PRELIMINARY - DO NOT  
 USE FOR CONSTRUCTION

DEPARTMENT  
 CE 497G - HIGHWAY ENGINEERING  
 CIVIL ENGINEERING DEPARTMENT  
 NORTH CAROLINA STATE UNIVERSITY  
 RALEIGH, NC 27607

TEAM MEMBER:  
 STUART SAMBERG

TEAM MEMBER:  
 BRIAN STATLER

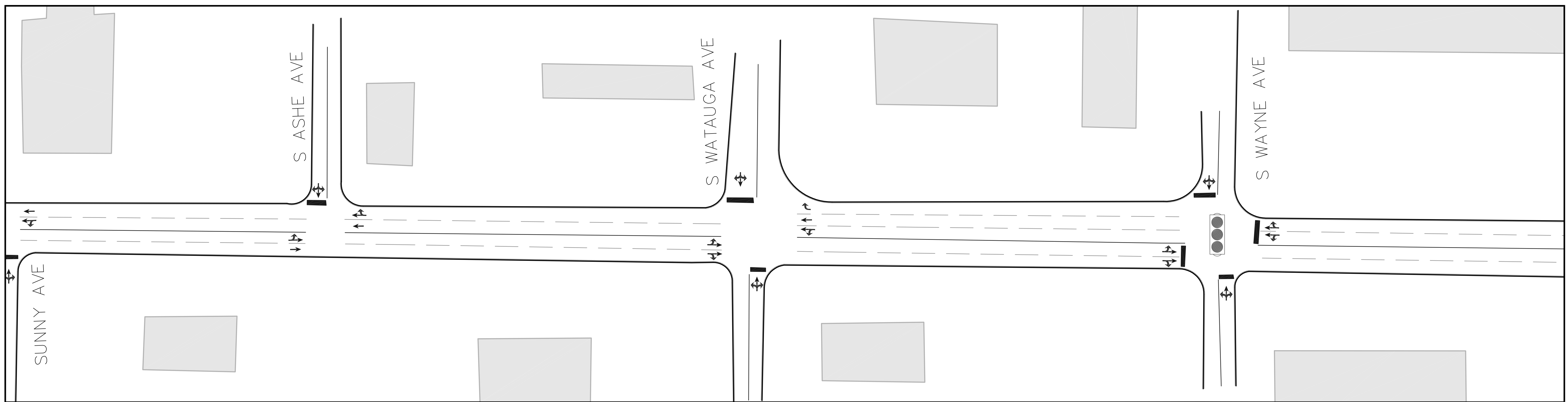
TEAM MEMBER:  
 MIKE ROSELLI

PROJECT NUMBER  
**001**

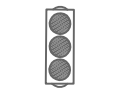




DRAWING NUMBER  
**A1**

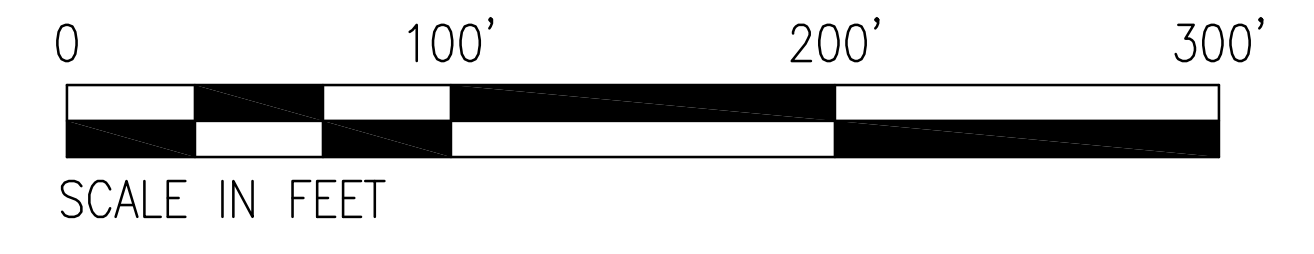
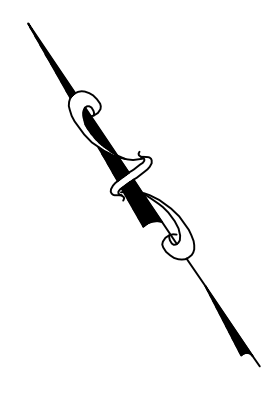
REV. ISSUED DATE DESCRIPTION

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 Layout Tab: G2

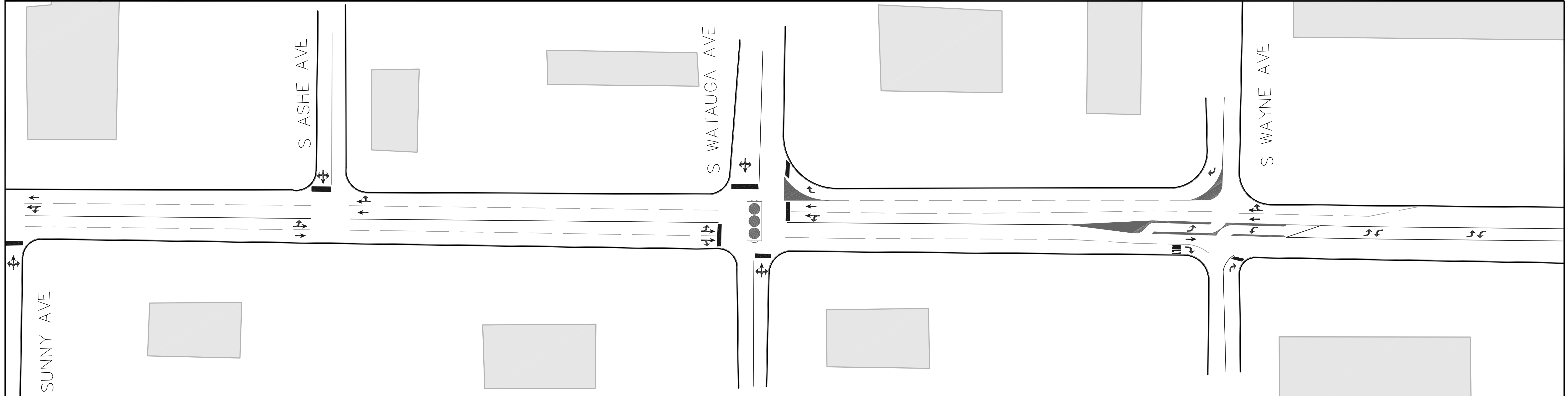


### EXISTING CONDITIONS

- KEY
-  TRAFFIC SIGNAL
  -  TURNING OPTIONS
  -  STOP BAR
  -  LANE SEPARATION
  -  CENTERLINE



### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

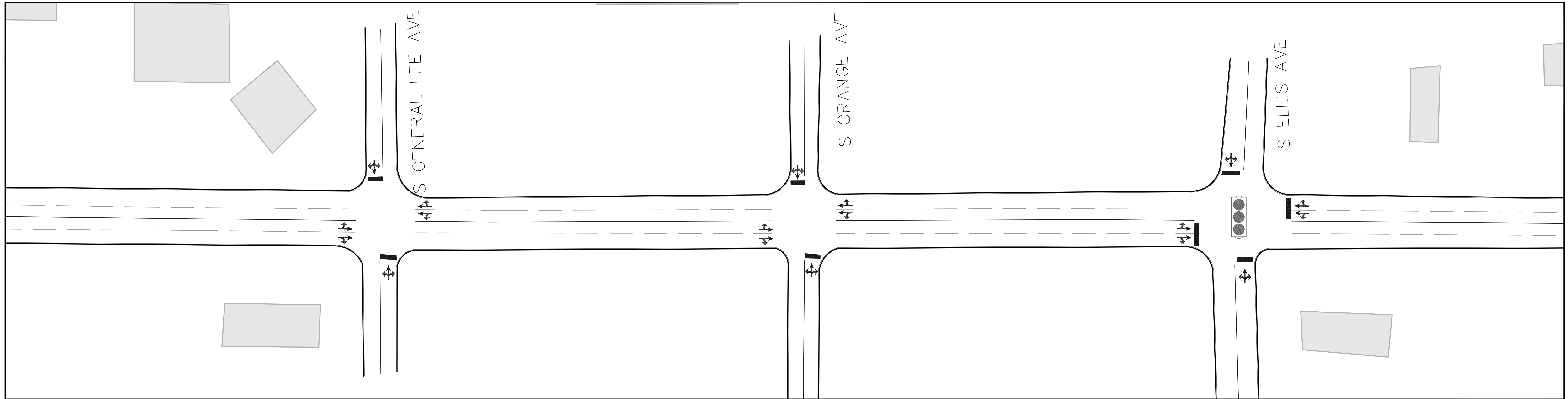
### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN ASHE AVE TO WAYNE AVE

DEPARTMENT CE 497G - HIGHWAY ENGINEERING  CIVIL ENGINEERING DEPARTMENT NORTH CAROLINA STATE UNIVERSITY RALEIGH, NC 27607	TEAM MEMBER: STUART SAMBERG  TEAM MEMBER: MIKE ROSELLI  PROJECT NUMBER <span style="font-size: 1.5em; font-weight: bold;">001</span>	TEAM MEMBER: BRIAN STATLER  DRAWING NUMBER <span style="font-size: 1.5em; font-weight: bold;">A2</span>
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SEAL  
 PRELIMINARY - DO NOT  
 USE FOR CONSTRUCTION

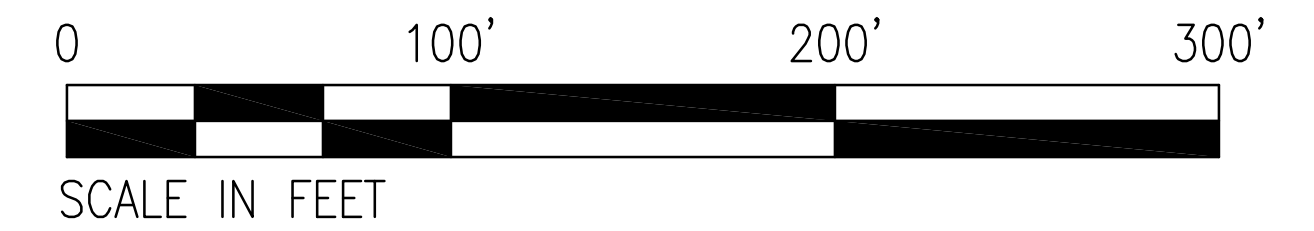
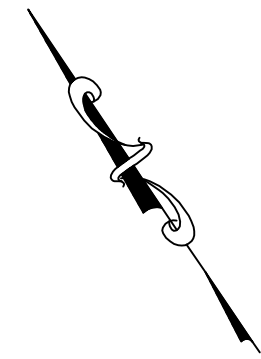
REV.	ISSUED DATE	DESCRIPTION

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User Name : mroselli  
Date/Time : Wed, 22 Apr 2009 - 1:28pm  
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Layout Tab : 63

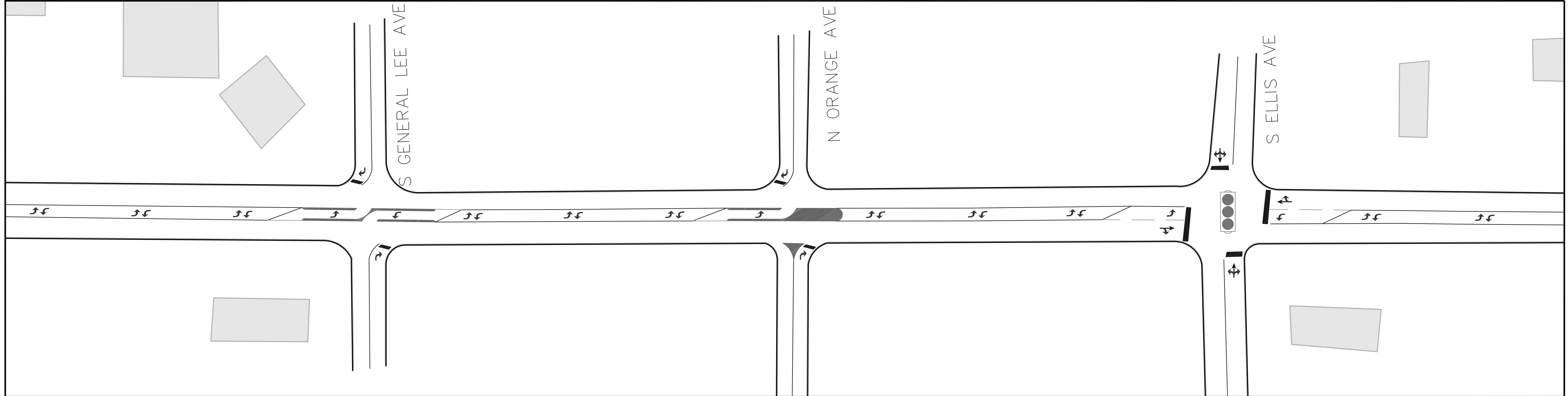


### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

### GENERAL LEE AVE TO ELLIS AVE

DEPARTMENT  
CE 497G - HIGHWAY ENGINEERING  
CIVIL ENGINEERING DEPARTMENT  
NORTH CAROLINA STATE UNIVERSITY  
RALEIGH, NC 27607

TEAM MEMBER:  
STUART SAMBERG

TEAM MEMBER:  
BRIAN STATLER

TEAM MEMBER:  
MIKE ROSELLI

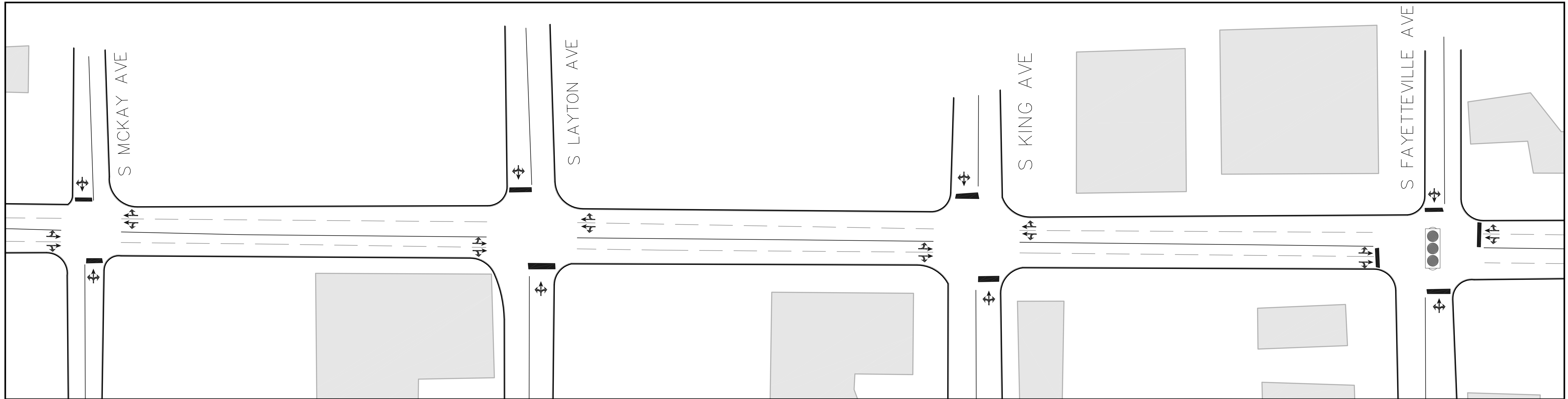
PROJECT NUMBER  
**001**

DRAWING NUMBER  
**A3**

SEAL  
**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

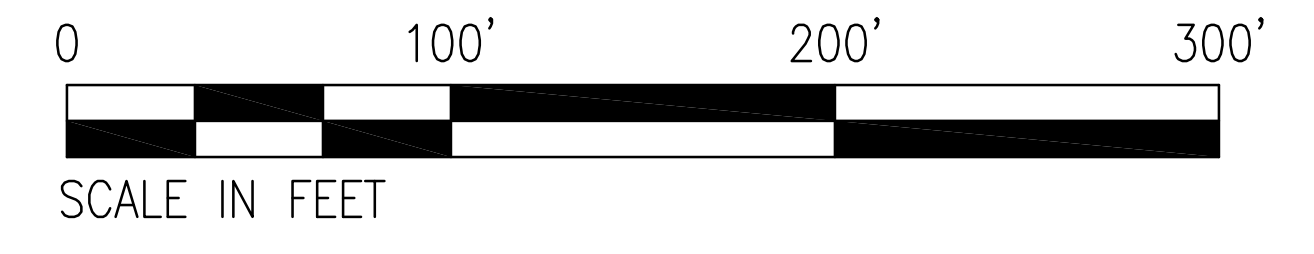
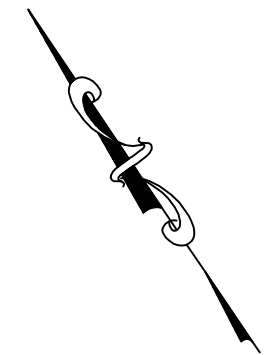
REV. ISSUED DATE DESCRIPTION

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User Name : mroselli  
Date/Time : Wed, 22 Apr 2009 - 1:28pm  
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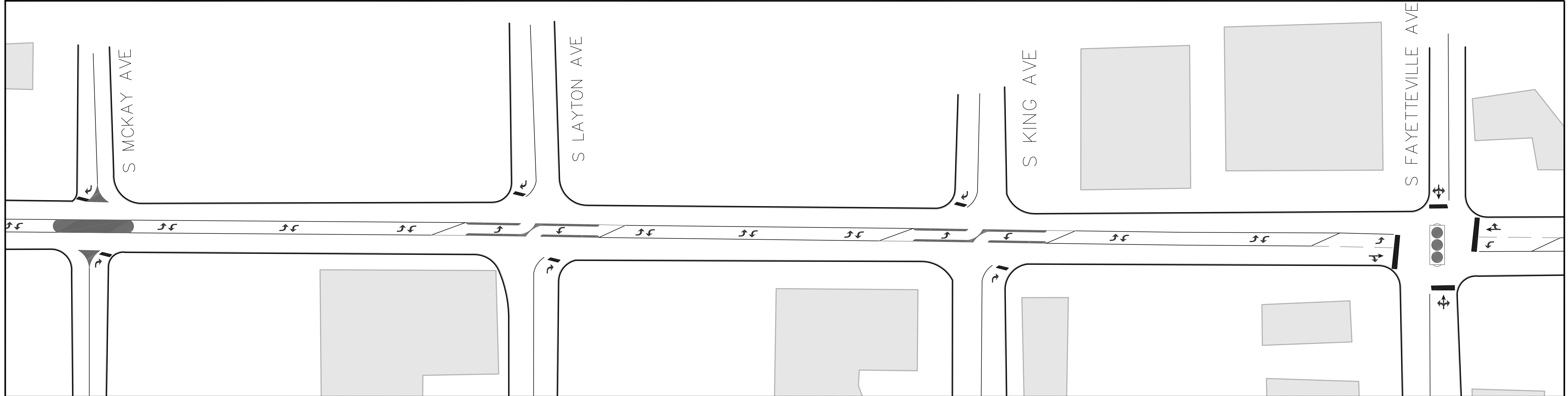


### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

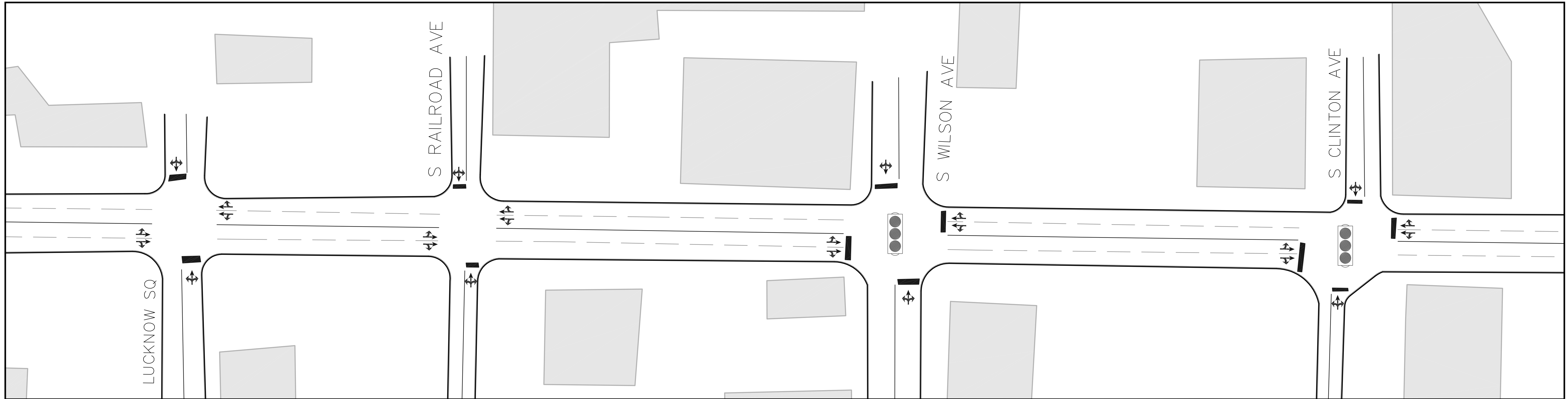
#### MCKAY AVE TO FAYETTEVILLE AVE

SEAL  
**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

DEPARTMENT CE 497G - HIGHWAY ENGINEERING	TEAM MEMBER: STUART SAMBERG	TEAM MEMBER: BRIAN STATLER
CIVIL ENGINEERING DEPARTMENT NORTH CAROLINA STATE UNIVERSITY RALEIGH, NC 27607	TEAM MEMBER: MIKE ROSELLI	
	PROJECT NUMBER <b>001</b>	DRAWING NUMBER <b>A4</b>

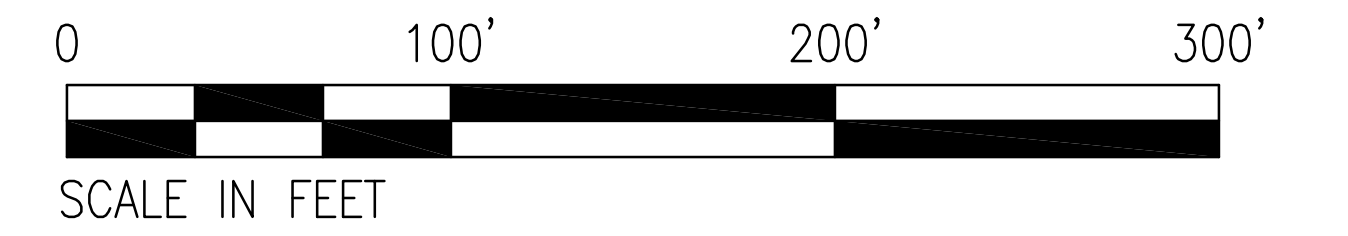
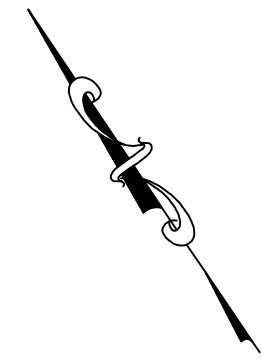
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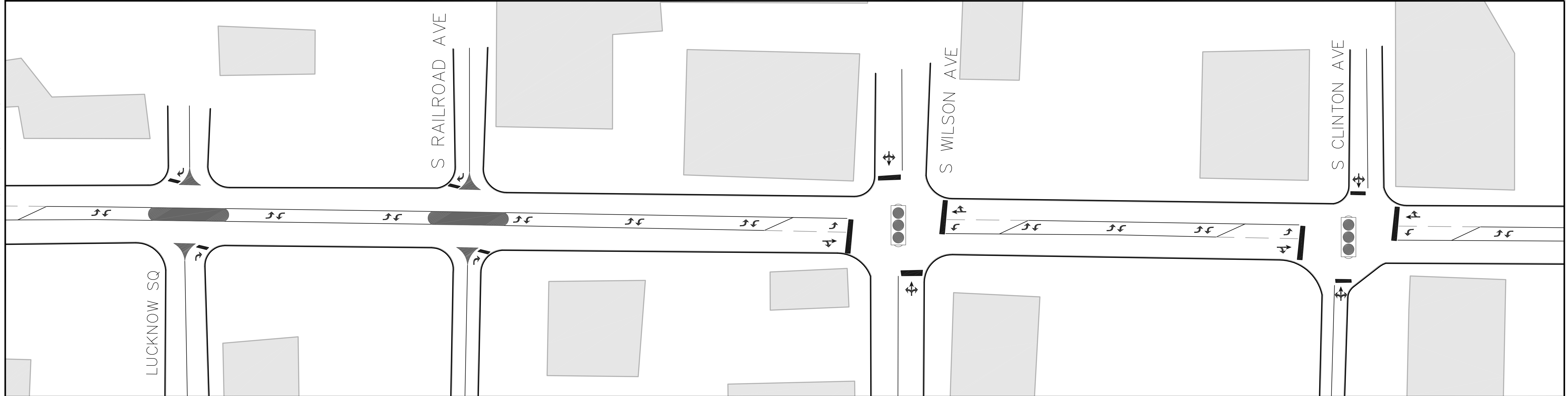


### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

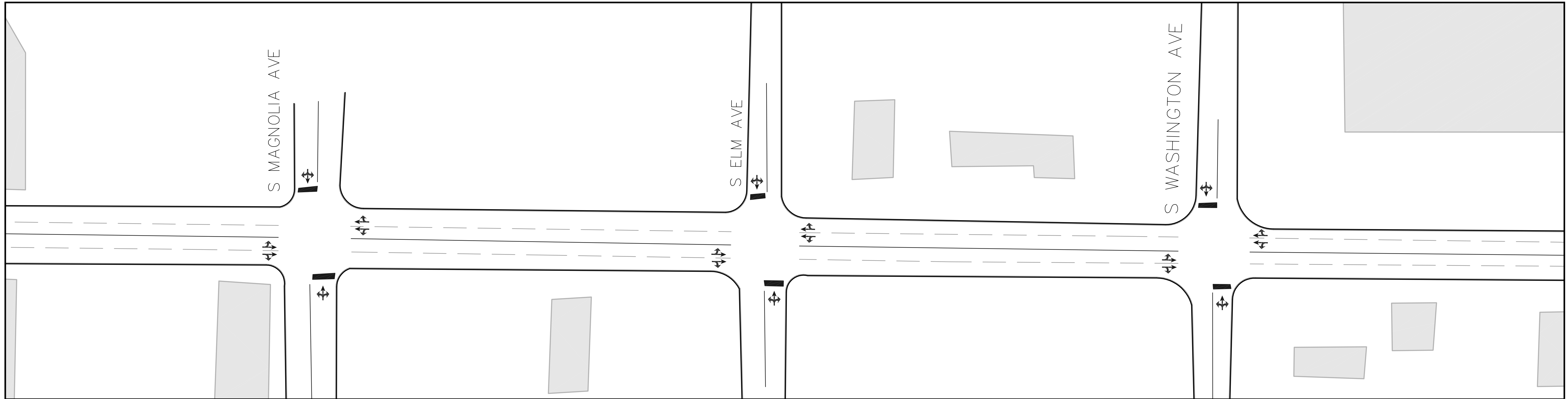
### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

#### LUCKNOW SQ TO CLINTON AVE

SEAL  
 PRELIMINARY - DO NOT  
 USE FOR CONSTRUCTION

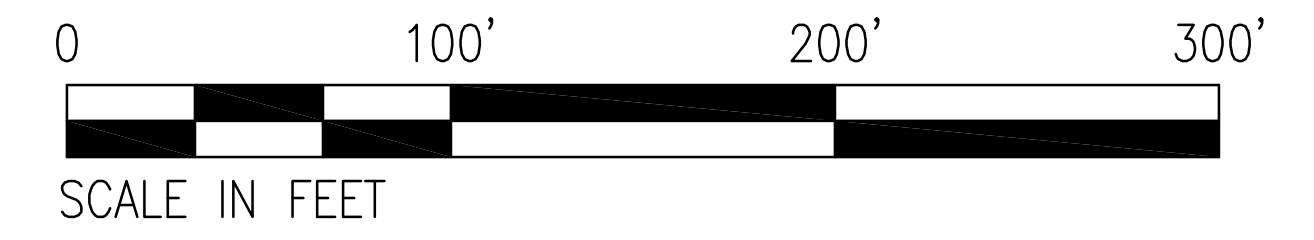
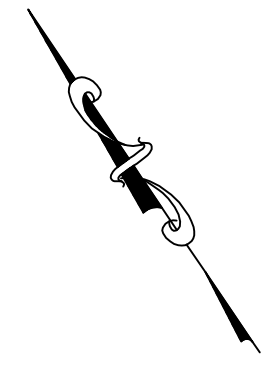
DEPARTMENT CE 497C - HIGHWAY ENGINEERING		TEAM MEMBER: STUART SAMBERG	TEAM MEMBER: BRIAN STATLER
CIVIL ENGINEERING DEPARTMENT NORTH CAROLINA STATE UNIVERSITY RALEIGH, NC 27607		TEAM MEMBER: MIKE ROSELLI	
REV. ISSUED DATE DESCRIPTION		PROJECT NUMBER <b>001</b>	DRAWING NUMBER <b>A5</b>

Acad Version : R17.0s (LMS Tech)  
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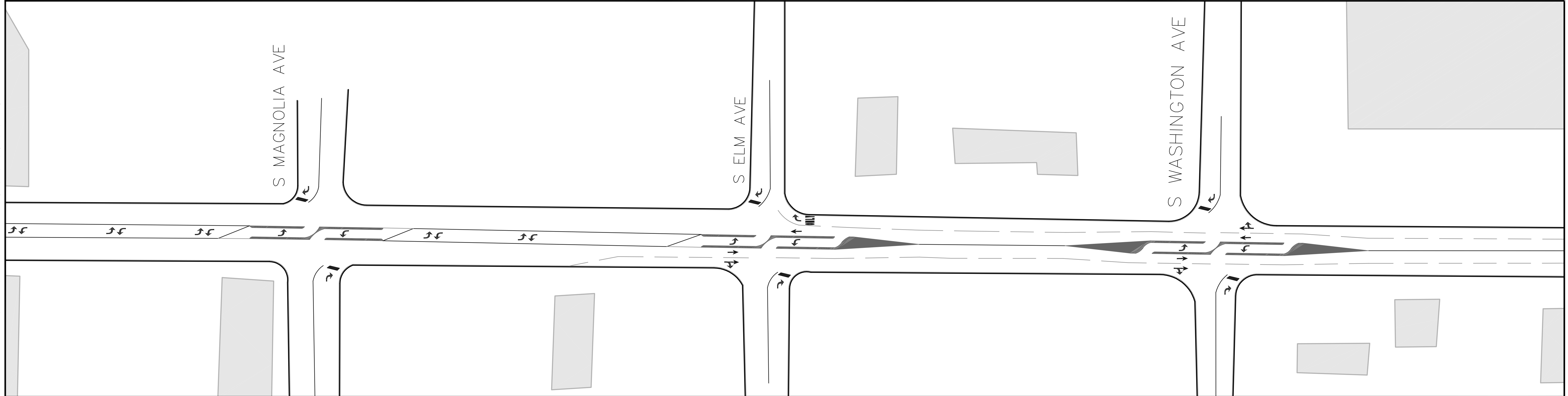


### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



### PROPOSED CONDITIONS



SEAL  
**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

### MAGNOLIA AVE TO WASHINGTON AVE

DEPARTMENT  
CE 497G - HIGHWAY ENGINEERING  
CIVIL ENGINEERING DEPARTMENT  
NORTH CAROLINA STATE UNIVERSITY  
RALEIGH, NC 27607

TEAM MEMBER:  
STUART SAMBERG

TEAM MEMBER:  
BRIAN STATLER

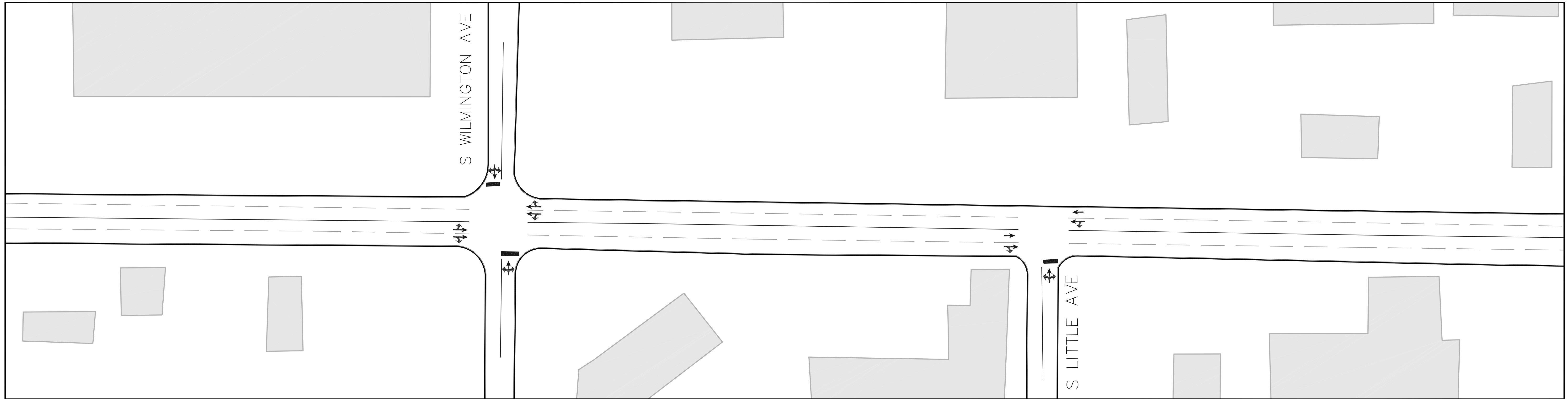
TEAM MEMBER:  
MIKE ROSELLI

PROJECT NUMBER  
**001**

DRAWING NUMBER  
**A6**

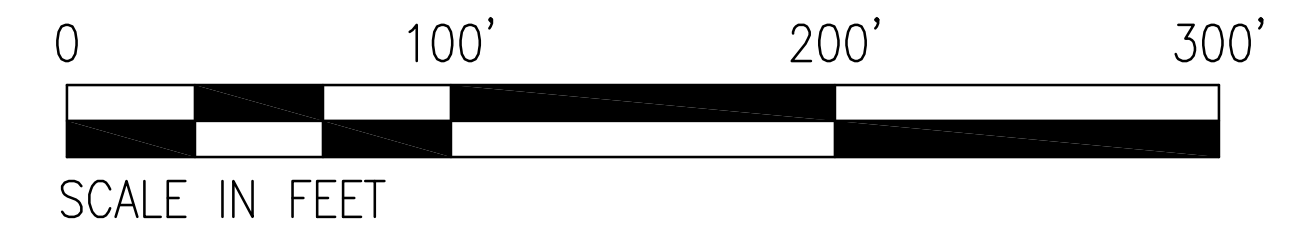
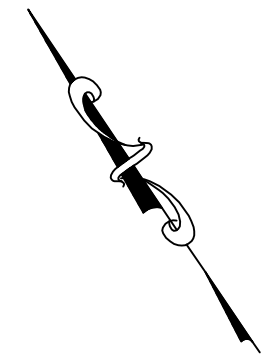
REV. ISSUED DATE DESCRIPTION

Acad Version : R17.0s (LMS Tech)  
User Name : mroselli  
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Path Name : G:\COMMON\Mike Roselli\Traffic project\427\lumproject\template.dwg  
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Layout Tab: 67



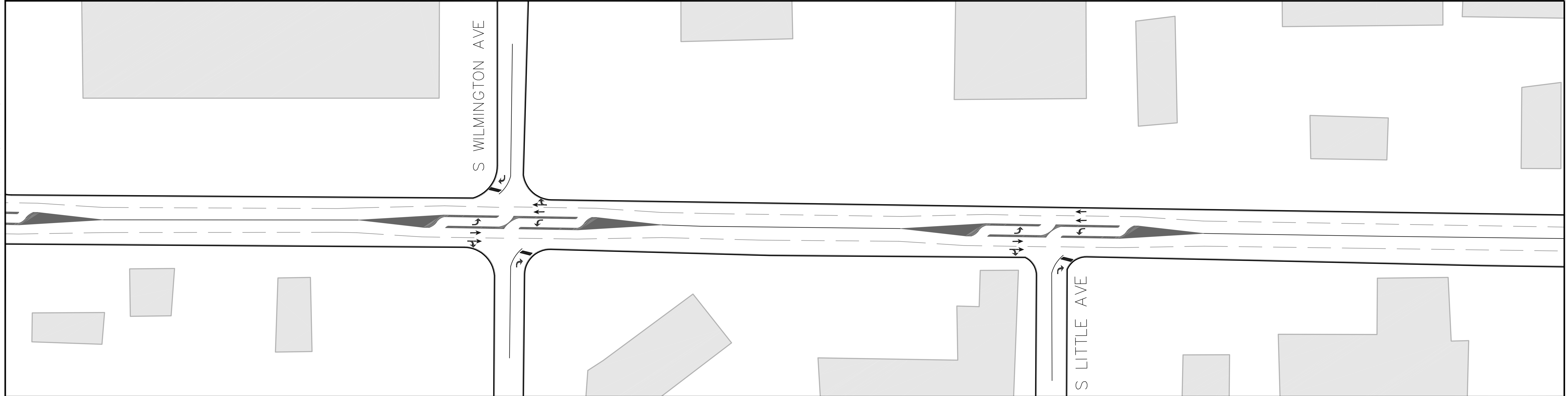
### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



SCALE IN FEET

### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

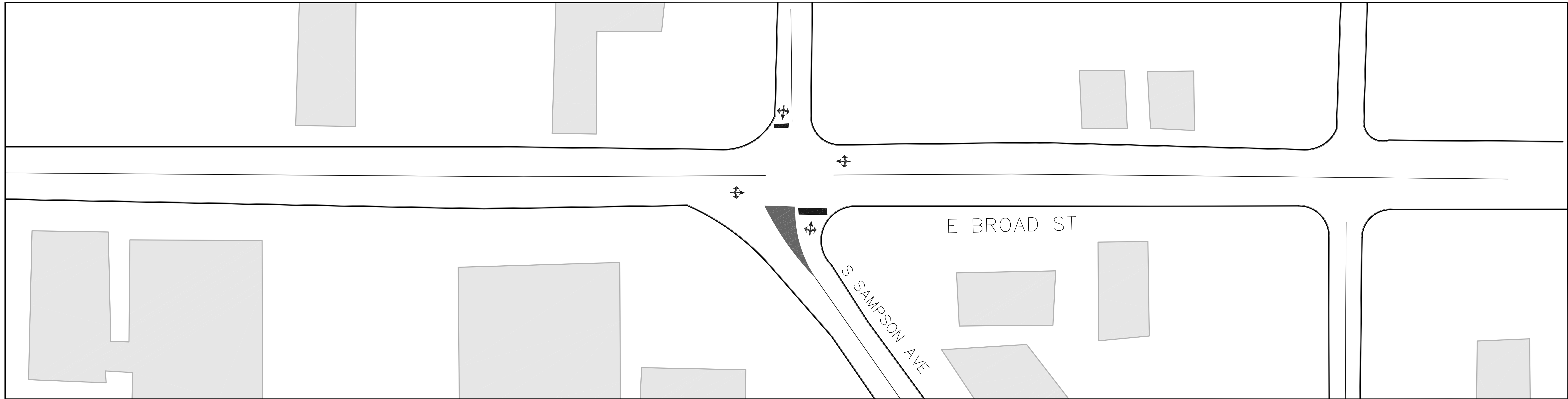
#### WILMINGTON AVE TO LITTLE AVE

SEAL  
**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

DEPARTMENT CE 497G - HIGHWAY ENGINEERING	TEAM MEMBER: STUART SAMBERG	TEAM MEMBER: BRIAN STATLER
CIVIL ENGINEERING DEPARTMENT NORTH CAROLINA STATE UNIVERSITY RALEIGH, NC 27607	TEAM MEMBER: MIKE ROSELLI	
	PROJECT NUMBER <b>001</b>	DRAWING NUMBER <b>A7</b>

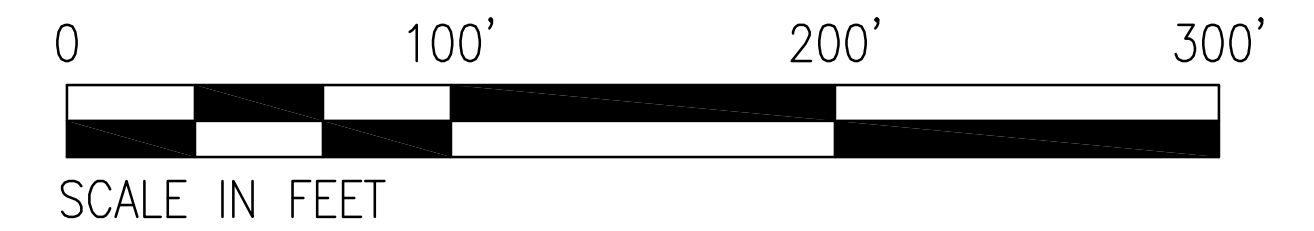
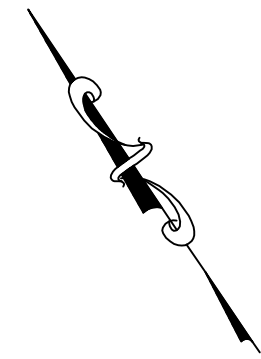
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Current Plotstyle : Btlayer  
Layout Tab : 08

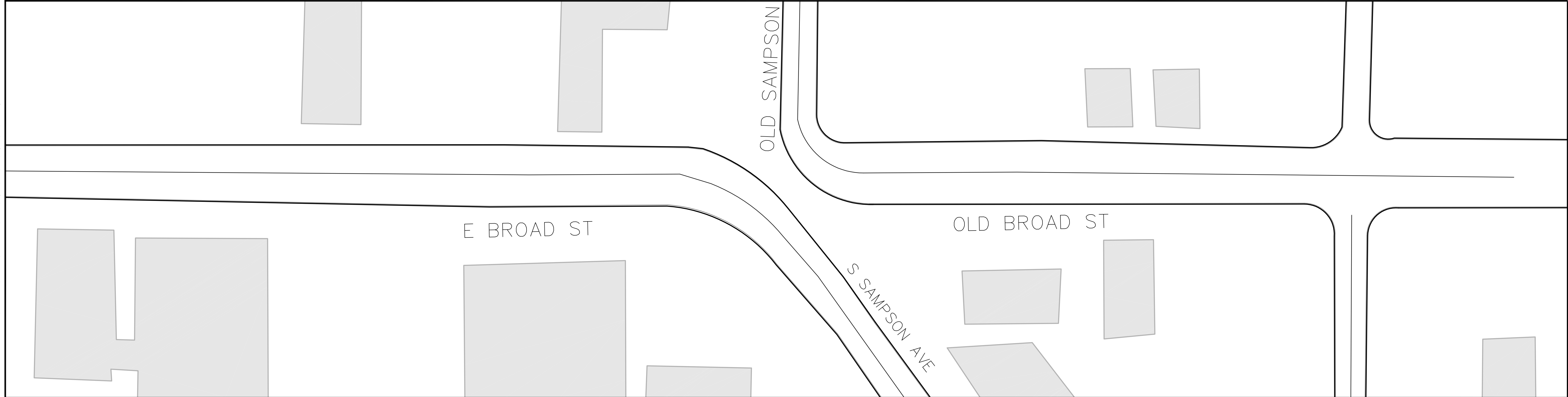


### EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



### PROPOSED CONDITIONS



## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN

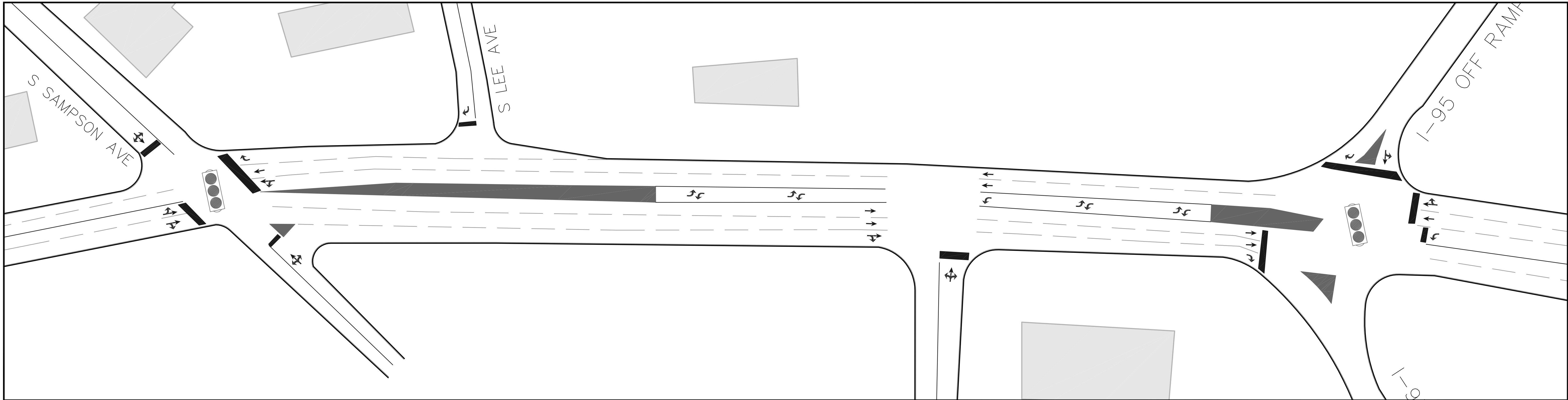
### INTERSECTION OF SAMPSON AVE AND BROAD ST

SEAL  
**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

DEPARTMENT  
CE 497G - HIGHWAY ENGINEERING  
CIVIL ENGINEERING DEPARTMENT  
NORTH CAROLINA STATE UNIVERSITY  
RALEIGH, NC 27607

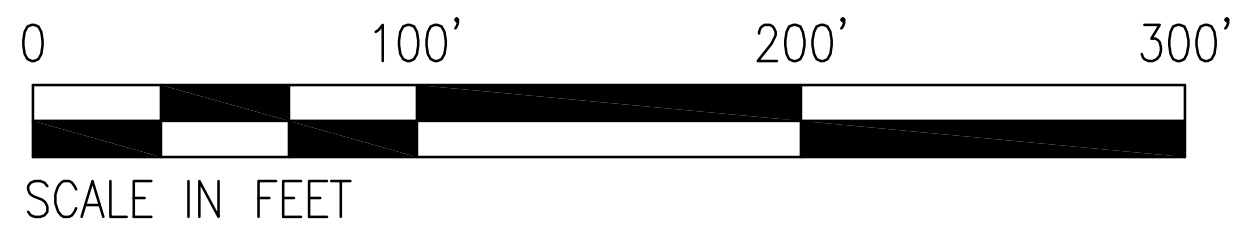
TEAM MEMBER: STUART SAMBERG	TEAM MEMBER: BRIAN STATLER
TEAM MEMBER: MIKE ROSELLI	
PROJECT NUMBER <b>001</b>	DRAWING NUMBER <b>A8</b>

REV. ISSUED DATE DESCRIPTION

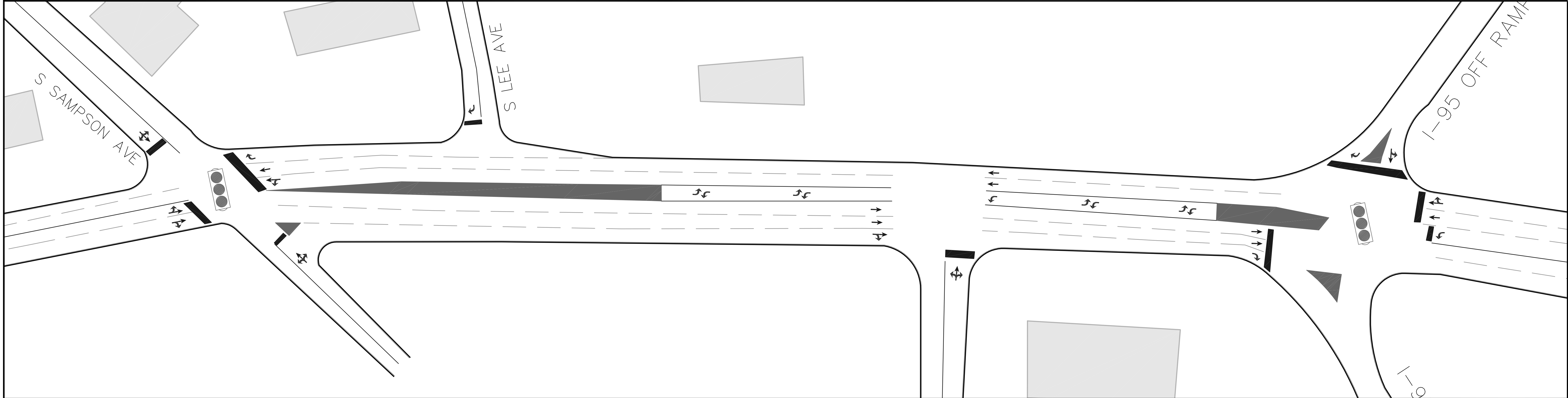


EXISTING CONDITIONS

- KEY
- TRAFFIC SIGNAL
  - TURNING OPTIONS
  - STOP BAR
  - LANE SEPARATION
  - CENTERLINE



PROPOSED CONDITIONS



DUNN - US421 CORRIDOR  
 AERIAL VIEW OF PROPOSED TRAFFIC DESIGN  
 BROAD ST TO ASHE AVE

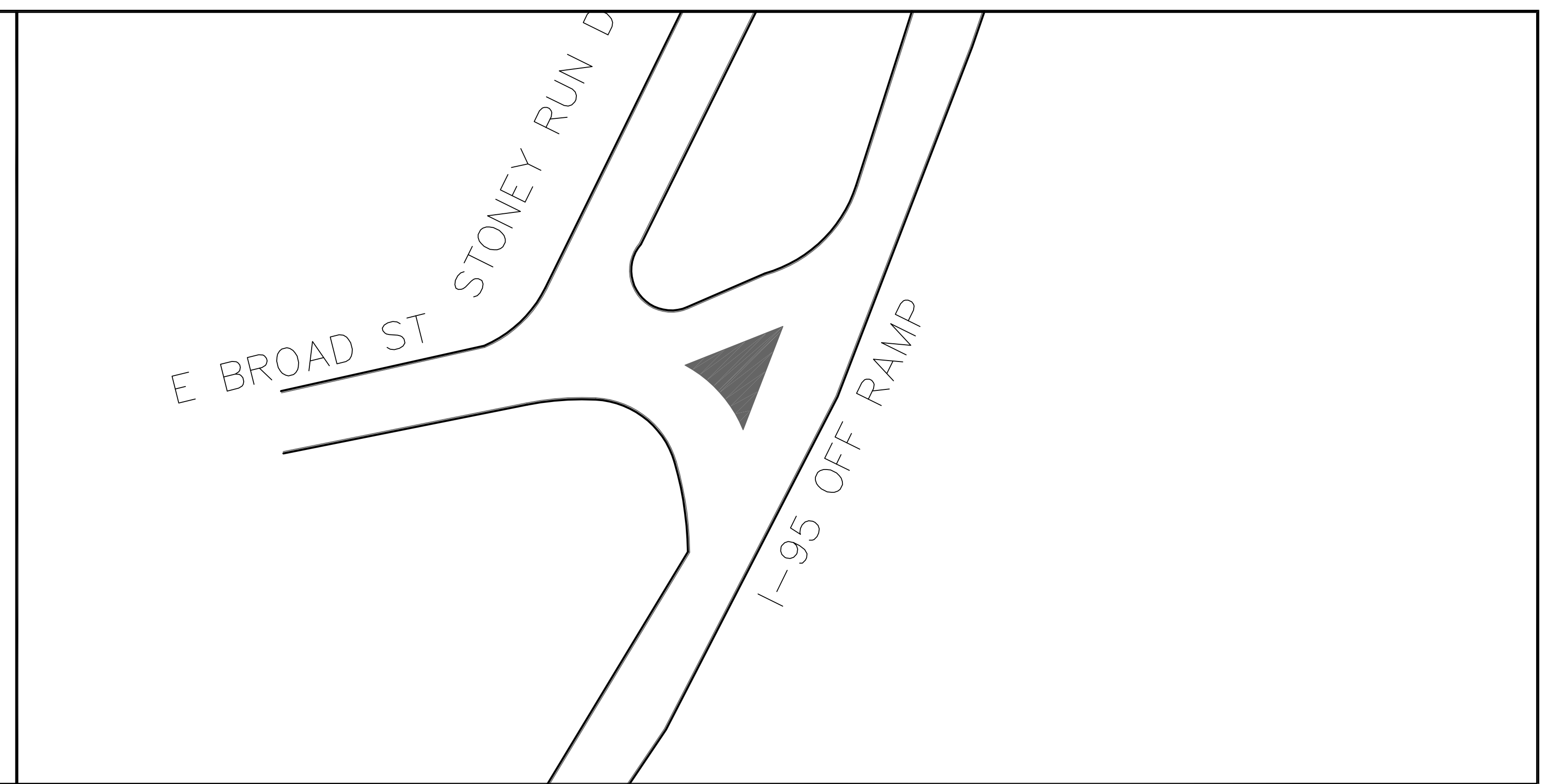
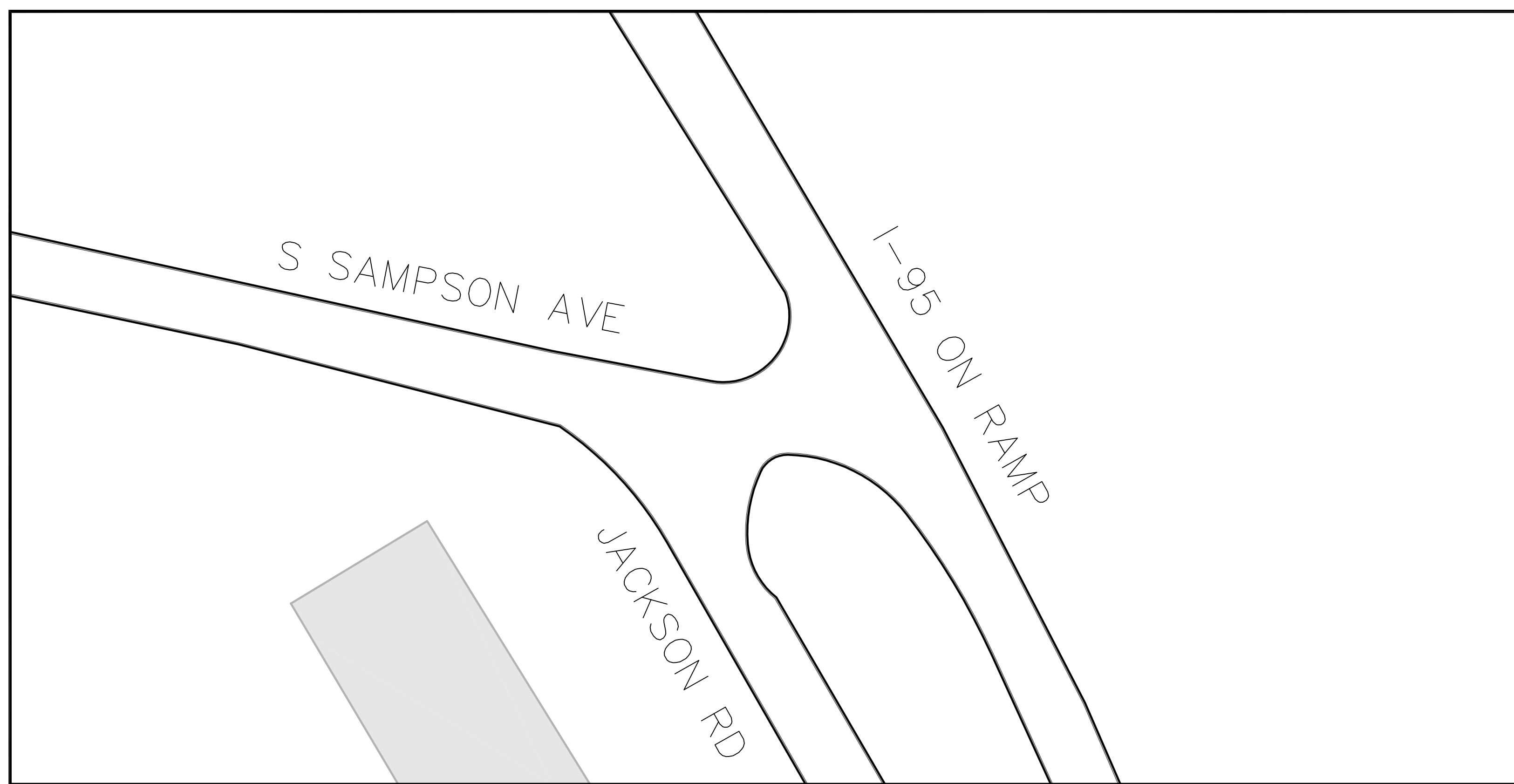
DEPARTMENT CE 497G - HIGHWAY ENGINEERING	TEAM MEMBER: STUART SAMBERG	TEAM MEMBER: BRIAN STATLER
CIVIL ENGINEERING DEPARTMENT NORTH CAROLINA STATE UNIVERSITY RALEIGH, NC 27607	TEAM MEMBER: MIKE ROSELLI	
	PROJECT NUMBER 001	DRAWING NUMBER A9

SEAL  
**PRELIMINARY - DO NOT  
 USE FOR CONSTRUCTION**

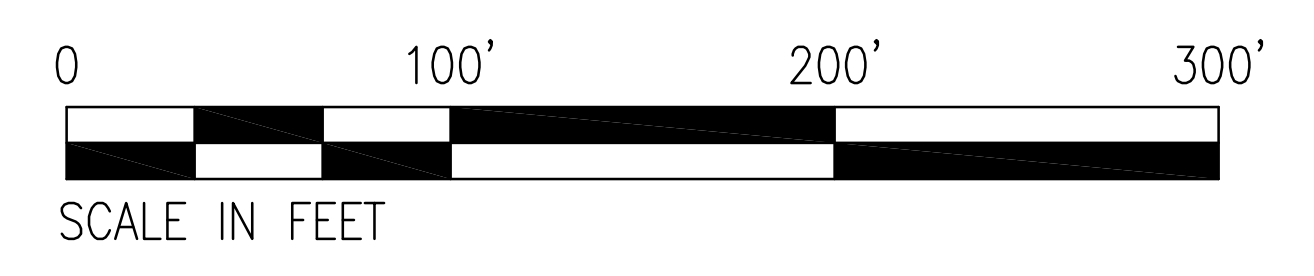
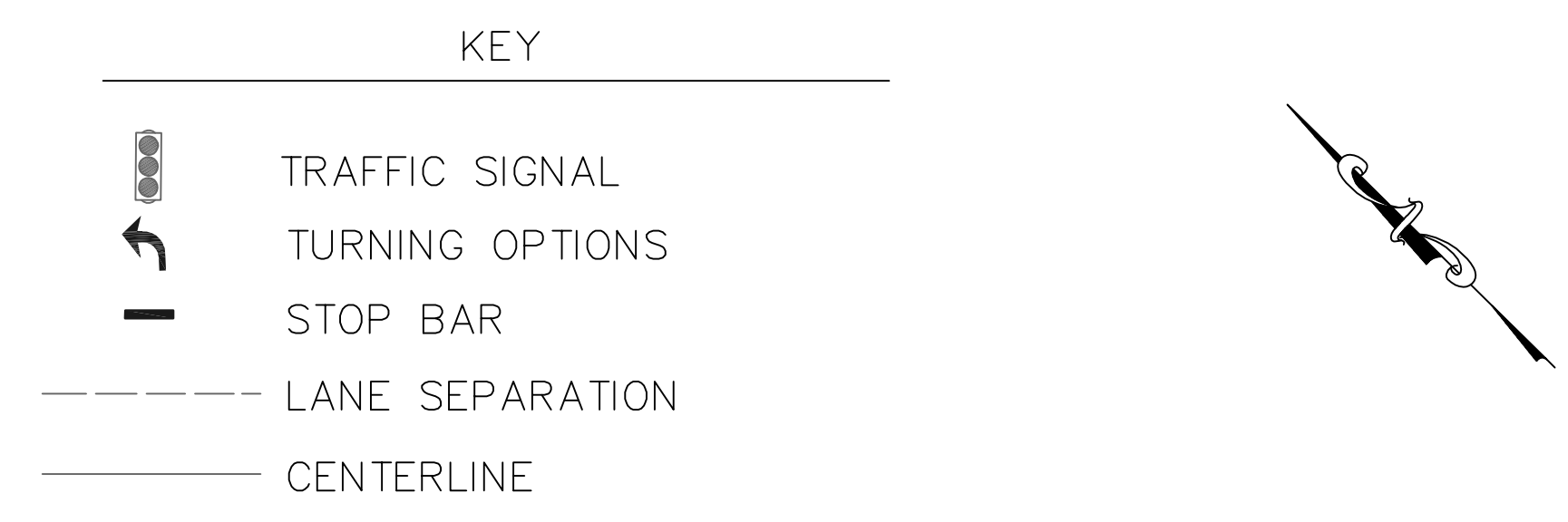
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REV.	ISSUED DATE	DESCRIPTION

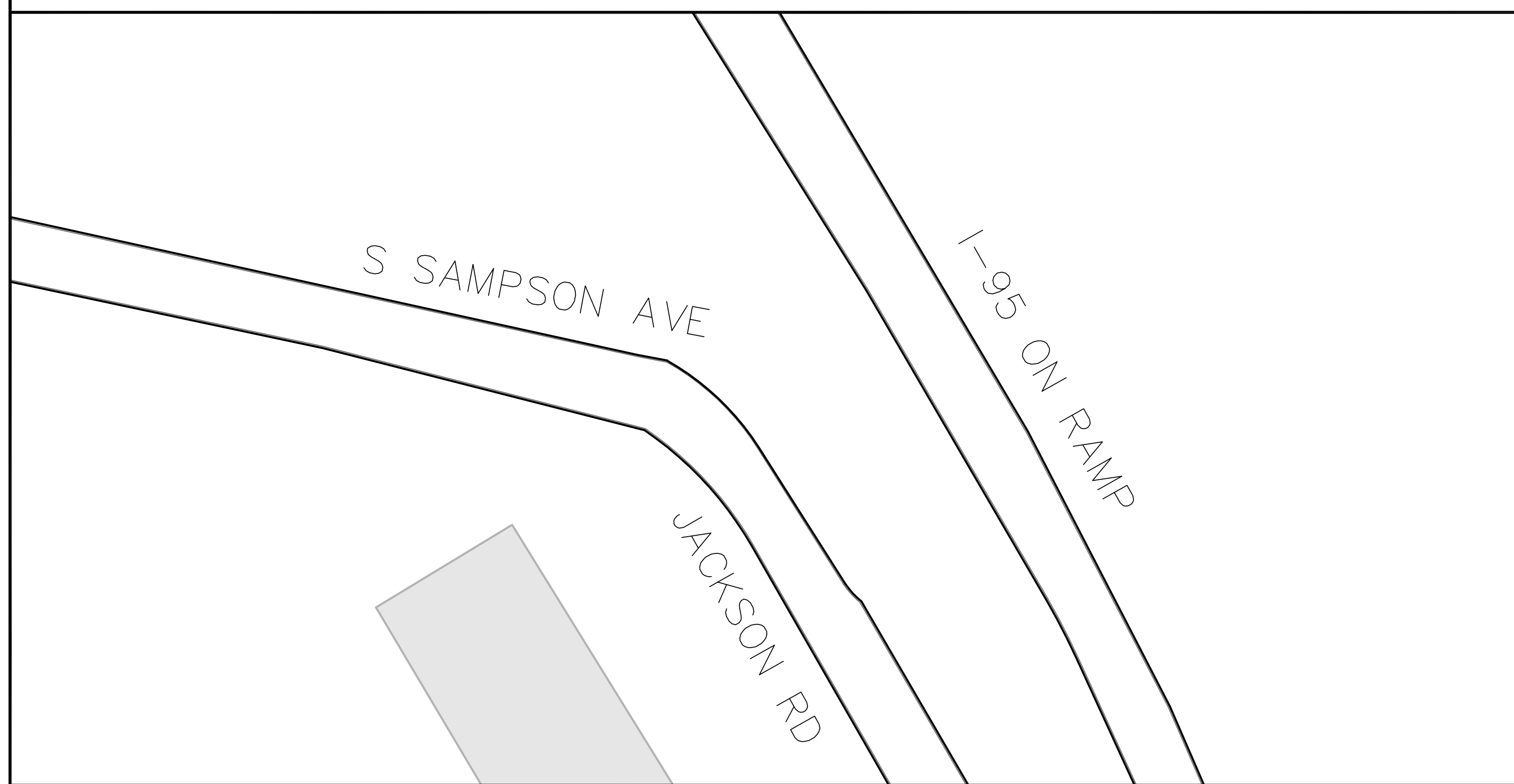
Acad Version : R17.0s (LMS Tech)  
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 Current Plotstyle : BlLayer  
 Layout Tab : 010



### EXISTING CONDITIONS



### PROPOSED CONDITIONS



SEAL  
 PRELIMINARY - DO NOT  
 USE FOR CONSTRUCTION

## DUNN - US421 CORRIDOR

### AERIAL VIEW OF PROPOSED TRAFFIC DESIGN I-95 ON RAMP AND OFF RAMP

DEPARTMENT CE 497G - HIGHWAY ENGINEERING  CIVIL ENGINEERING DEPARTMENT NORTH CAROLINA STATE UNIVERSITY RALEIGH, NC 27607	TEAM MEMBER: STUART SAMBERG  TEAM MEMBER: MIKE ROSELLI	TEAM MEMBER: BRIAN STATLER	PROJECT NUMBER <h1 style="font-size: 2em; margin: 0;">001</h1>	DRAWING NUMBER <h1 style="font-size: 2em; margin: 0;">A10</h1>
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REV.	ISSUED DATE	DESCRIPTION