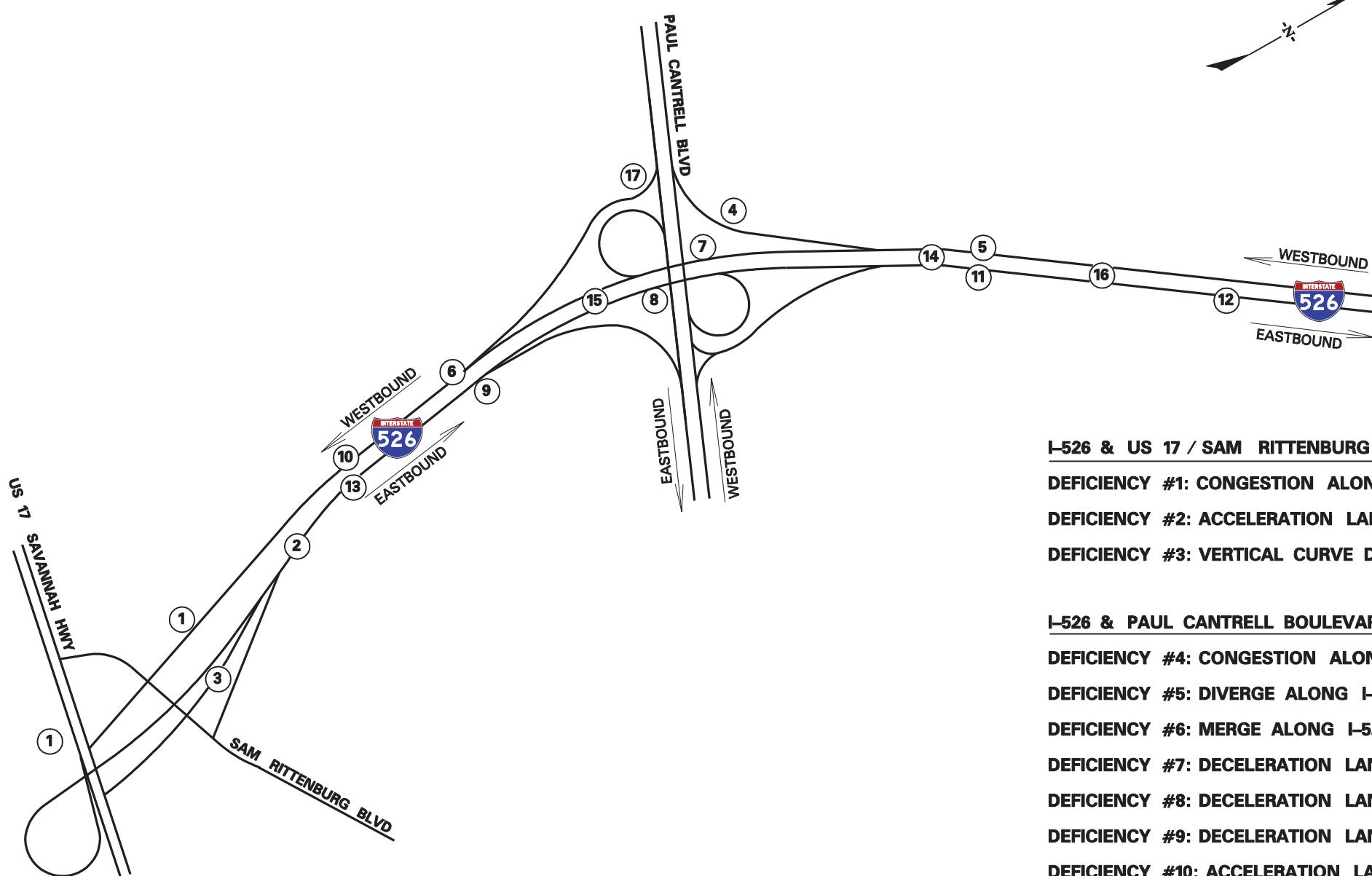




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APPENDIX A – CAPACITY IMPROVEMENT CONCEPT PLANS

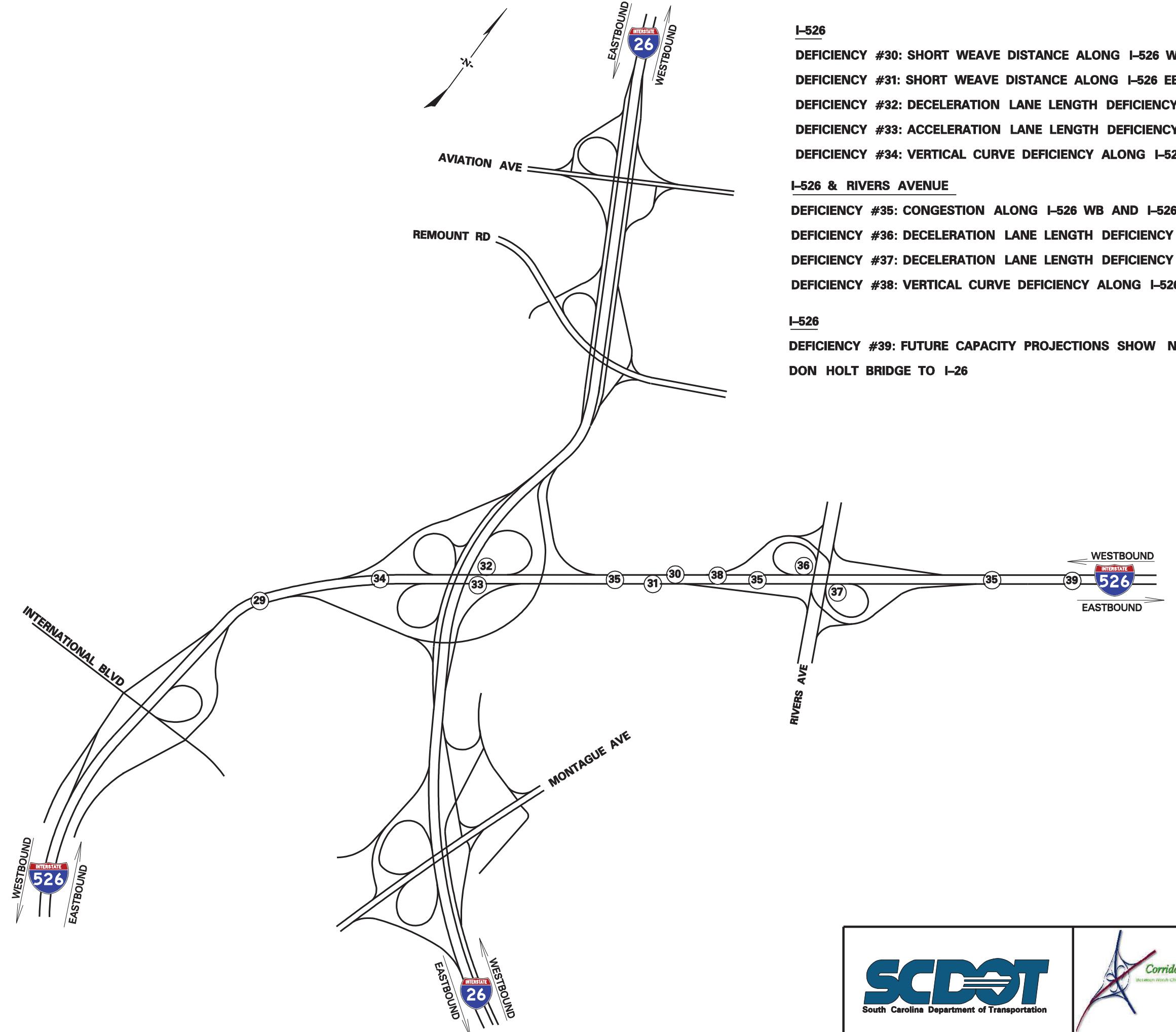


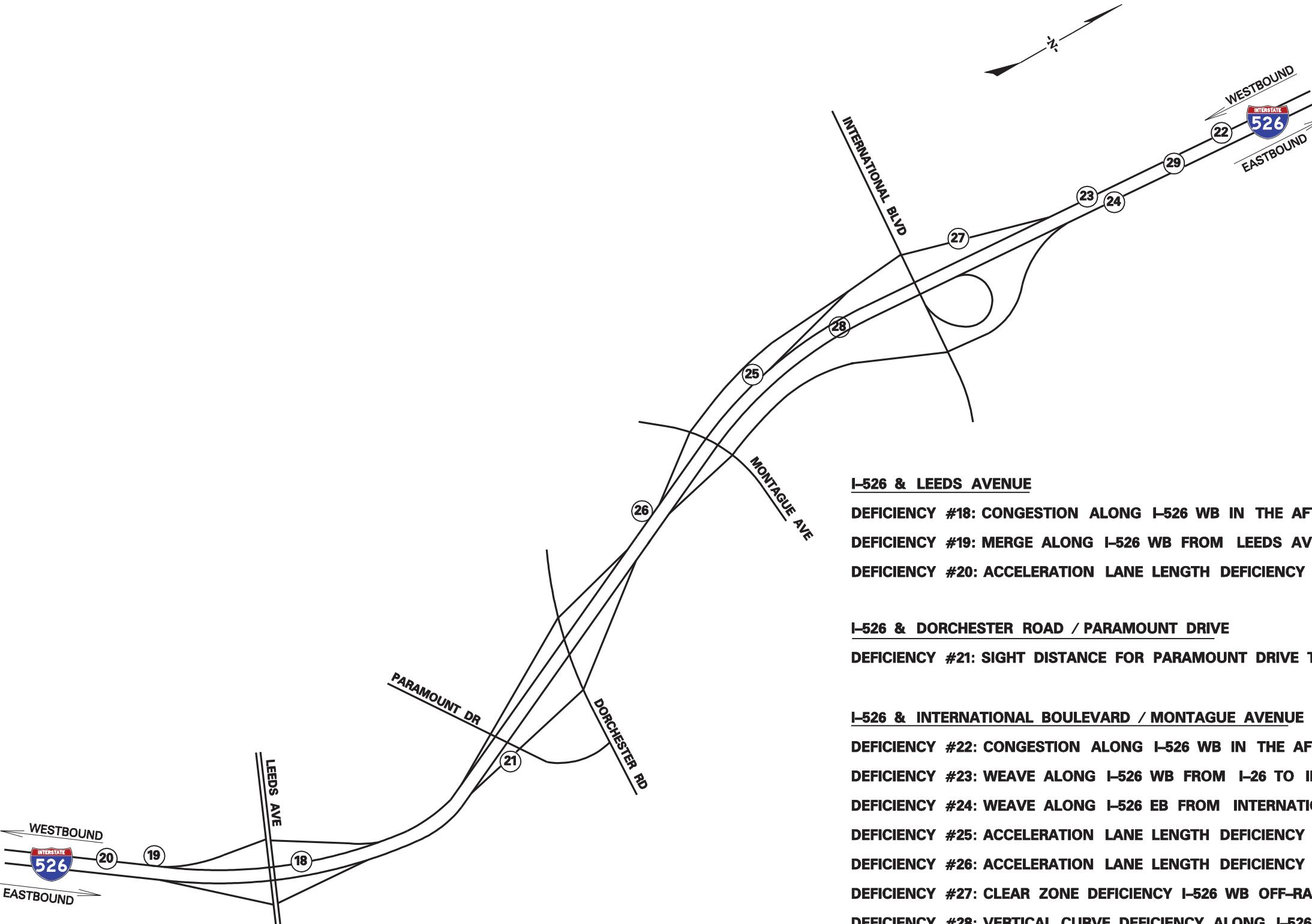
I-526 & US 17 / SAM RITTENBURG BOULEVARD

- DEFICIENCY #1: CONGESTION ALONG I-526 WB AND US 17 IN THE AFTERNOON
- DEFICIENCY #2: ACCELERATION LANE LENGTH DEFICIENCY FROM SAM RITTENBURG BOULEVARD TO I-526 EB
- DEFICIENCY #3: VERTICAL CURVE DEFICIENCY ALONG I-526 EAST OF SAM RITTENBURG BOULEVARD

I-526 & PAUL CANTRELL BOULEVARD

- DEFICIENCY #4: CONGESTION ALONG I-526 WB AND PAUL CANTRELL BOULEVARD WB IN THE AFTERNOON
- DEFICIENCY #5: DIVERGE ALONG I-526 WB TO PAUL CANTRELL BOULEVARD
- DEFICIENCY #6: MERGE ALONG I-526 WB FROM PAUL CANTRELL BOULEVARD
- DEFICIENCY #7: DECELERATION LANE LENGTH DEFICIENCY FROM I-526 WB TO PAUL CANTRELL EB LOOP RAMP
- DEFICIENCY #8: DECELERATION LANE LENGTH DEFICIENCY FROM I-526 EB TO PAUL CANTRELL WB LOOP RAMP
- DEFICIENCY #9: DECELERATION LANE LENGTH DEFICIENCY FROM I-526 EB TO PAUL CANTRELL EB RAMP
- DEFICIENCY #10: ACCELERATION LANE LENGTH DEFICIENCY FROM PAUL CANTRELL BOULEVARD TO I-526 WB
- DEFICIENCY #11: ACCELERATION LANE LENGTH DEFICIENCY FROM PAUL CANTRELL BOULEVARD TO I-526 EB
- DEFICIENCY #12: CLEAR ZONE DEFICIENCY I-526 EB EAST OF ASHLEY RIVER ROAD
- DEFICIENCY #13: CLEAR ZONE DEFICIENCY I-526 EB WEST OF PAUL CANTRELL BOULEVARD
- DEFICIENCY #14: VERTICAL CURVE DEFICIENCY ALONG I-526 EAST OF PAUL CANTRELL BOULEVARD
- DEFICIENCY #15: VERTICAL CURVE DEFICIENCY ALONG I-526 WEST OF PAUL CANTRELL BOULEVARD
- DEFICIENCY #16: VERTICAL CURVE DEFICIENCY ALONG I-526 EAST OF ASHLEY RIVER ROAD
- DEFICIENCY #17: NO PAUL CANTRELL BOULEVARD WB ACCESS TO I-526 WB





I-526 & LEEDS AVENUE

DEFICIENCY #18: CONGESTION ALONG I-526 WB IN THE AFTERNOON

DEFICIENCY #19: MERGE ALONG I-526 WB FROM LEEDS AVENUE

DEFICIENCY #20: ACCELERATION LANE LENGTH DEFICIENCY FROM LEEDS AVENUE TO I-526 WB

I-526 & DORCHESTER ROAD / PARAMOUNT DRIVE

DEFICIENCY #21: SIGHT DISTANCE FOR PARAMOUNT DRIVE THROUGH I-526 OVERPASSES

I-526 & INTERNATIONAL BOULEVARD / MONTAGUE AVENUE

DEFICIENCY #22: CONGESTION ALONG I-526 WB IN THE AFTERNOON

DEFICIENCY #23: WEAVE ALONG I-526 WB FROM I-26 TO INTERNATIONAL BOULEVARD

DEFICIENCY #24: WEAVE ALONG I-526 EB FROM INTERNATIONAL BOULEVARD TO I-26

DEFICIENCY #25: ACCELERATION LANE LENGTH DEFICIENCY FROM INTERNATIONAL BOULEVARD TO I-526 WB

DEFICIENCY #26: ACCELERATION LANE LENGTH DEFICIENCY FROM MONTAGUE AVENUE TO I-526 WB

DEFICIENCY #27: CLEAR ZONE DEFICIENCY I-526 WB OFF-RAMP TO INTERNATIONAL BOULEVARD

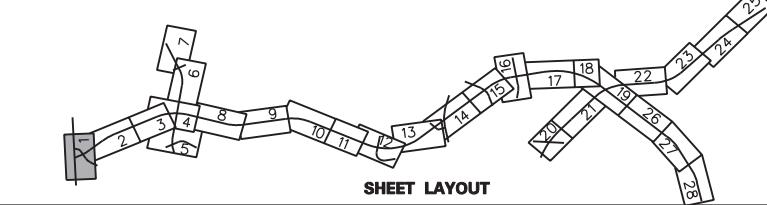
DEFICIENCY #28: VERTICAL CURVE DEFICIENCY ALONG I-526 WEST OF INTERNATIONAL BOULEVARD

I-526 / I-26 INTERCHANGE

DEFICIENCY #29: FUTURE CAPACITY PROJECTIONS SHOW NEED FOR POTENTIAL WIDENING FROM I-26 TO LEEDS AVENUE



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10/9/2012



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- NEW ROADWAY



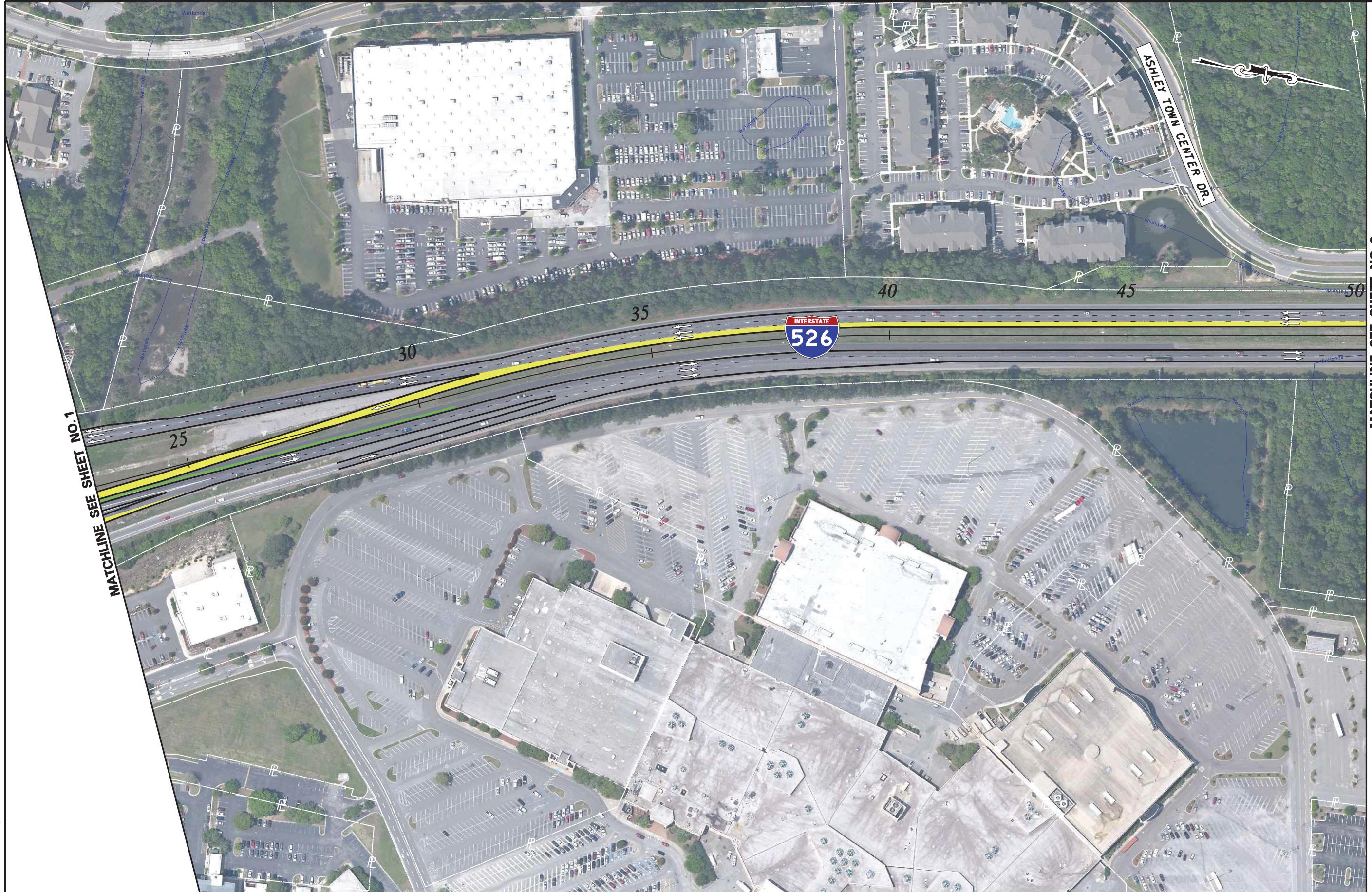
CAPACITY IMPROVEMENT STRATEGIES

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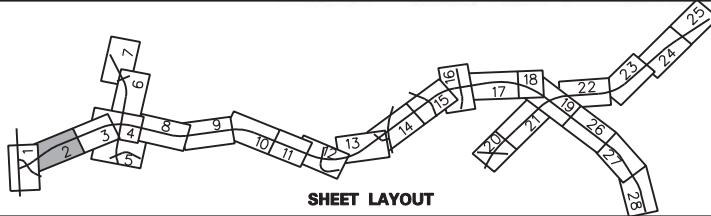
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PHOTOGRAPHY DATE: MARCH 2012

SHEET 1



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10/9/2012

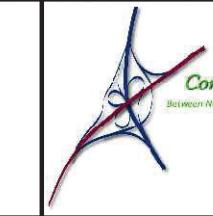


LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

NEW BRIDGE
NEW ROADWAY

SCDOT
South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES

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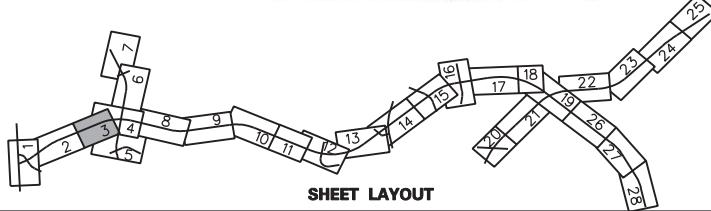
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PHOTOGRAPHY DATE: MARCH 2012 SHEET 2

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MATCHLINE SEE SHEET NO. 4

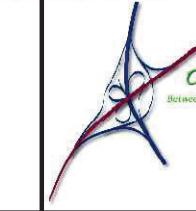


LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands — WETLANDS

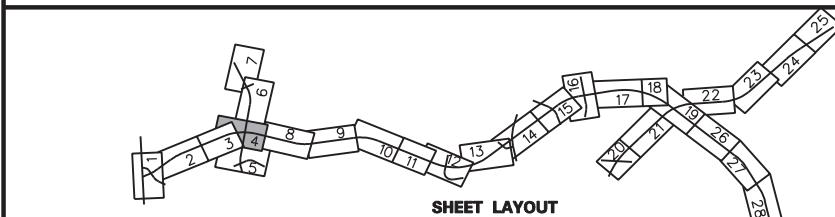
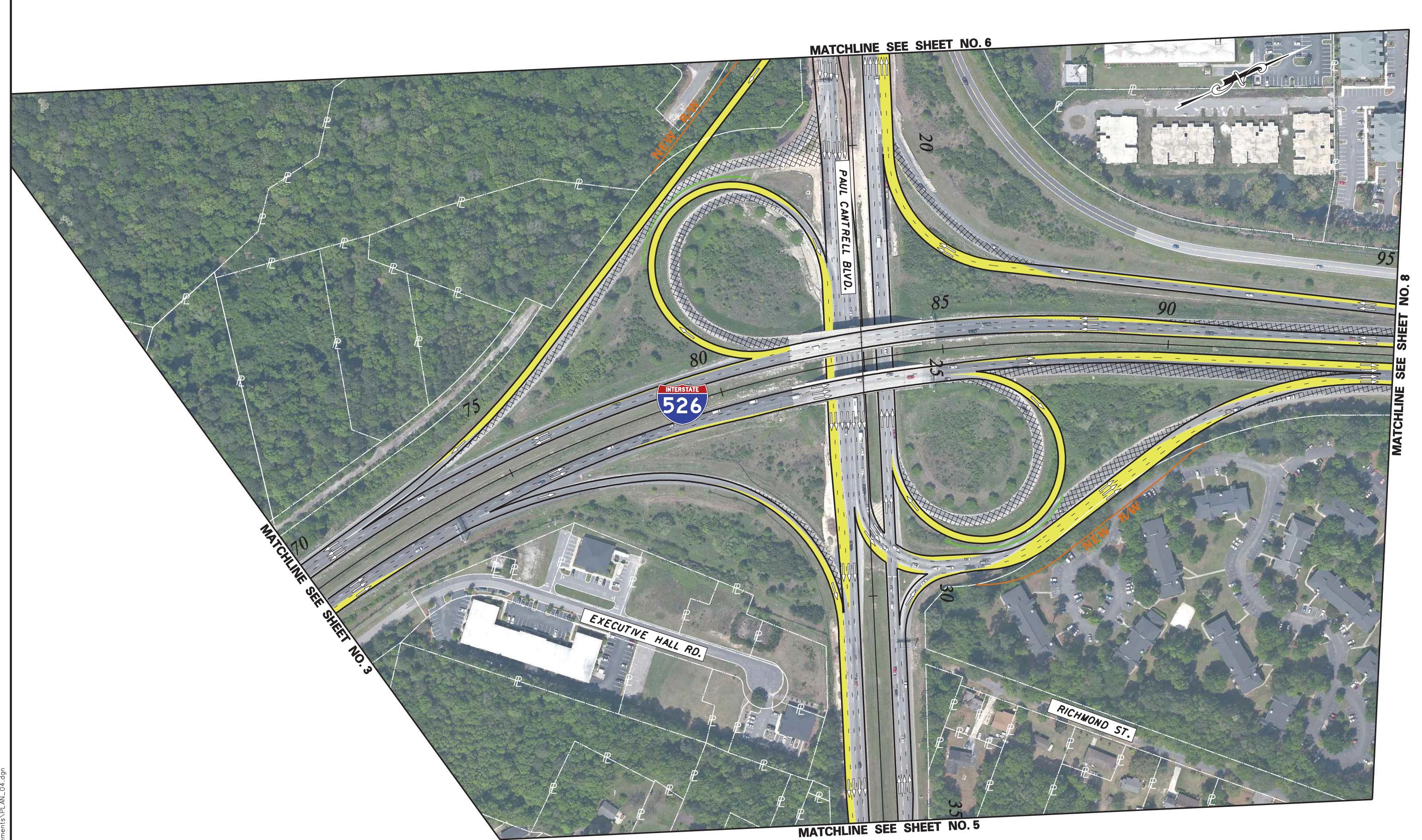
NEW BRIDGE
NEW ROADWAY

SCDOT
South Carolina Department of Transportation

**CAPACITY IMPROVEMENT STRATEGIES**

0 100 200 400
SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 3



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

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South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES

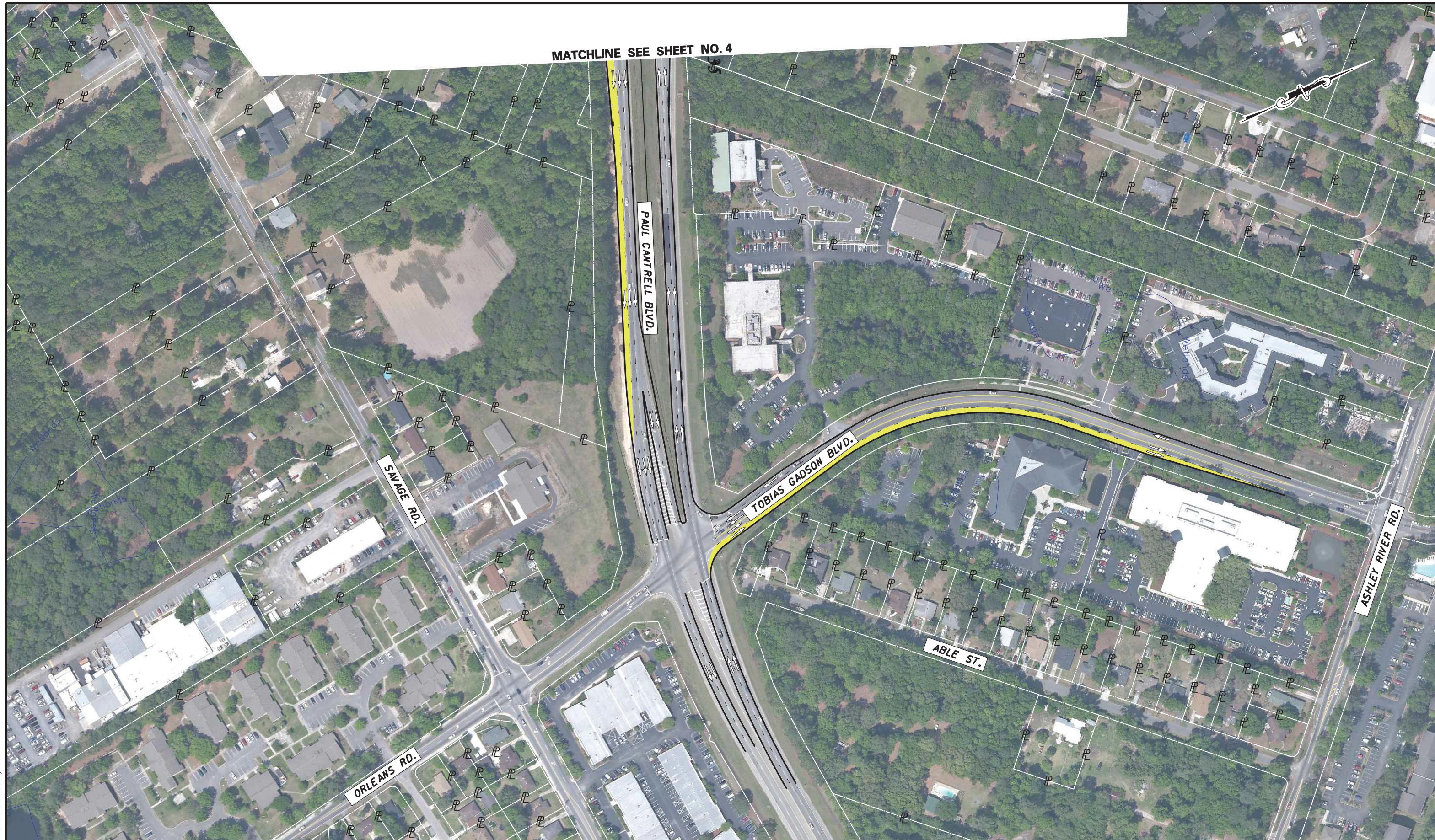
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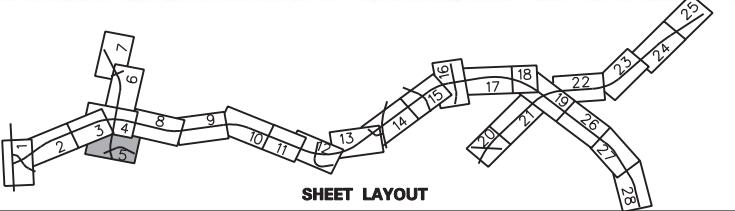
PHOTOGRAPHY DATE: MARCH 2012

SHEET 4

MATCHLINE SEE SHEET NO. 4



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10/9/2012



SHEET LAYOUT

- LEGEND**
- CENTERLINE
 - NEW BRIDGE
 - NEW ROADWAY
 - NEW R/W
 - NEW MEDIAN BARRIER
 - NEW RETAINING WALL
 - Wetlands
 - WETLANDS

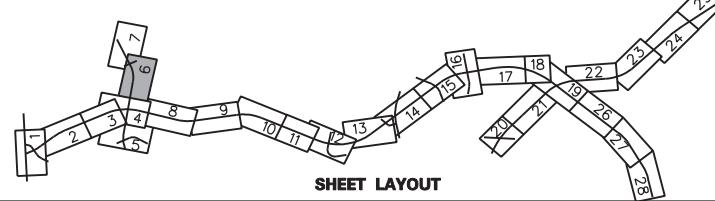
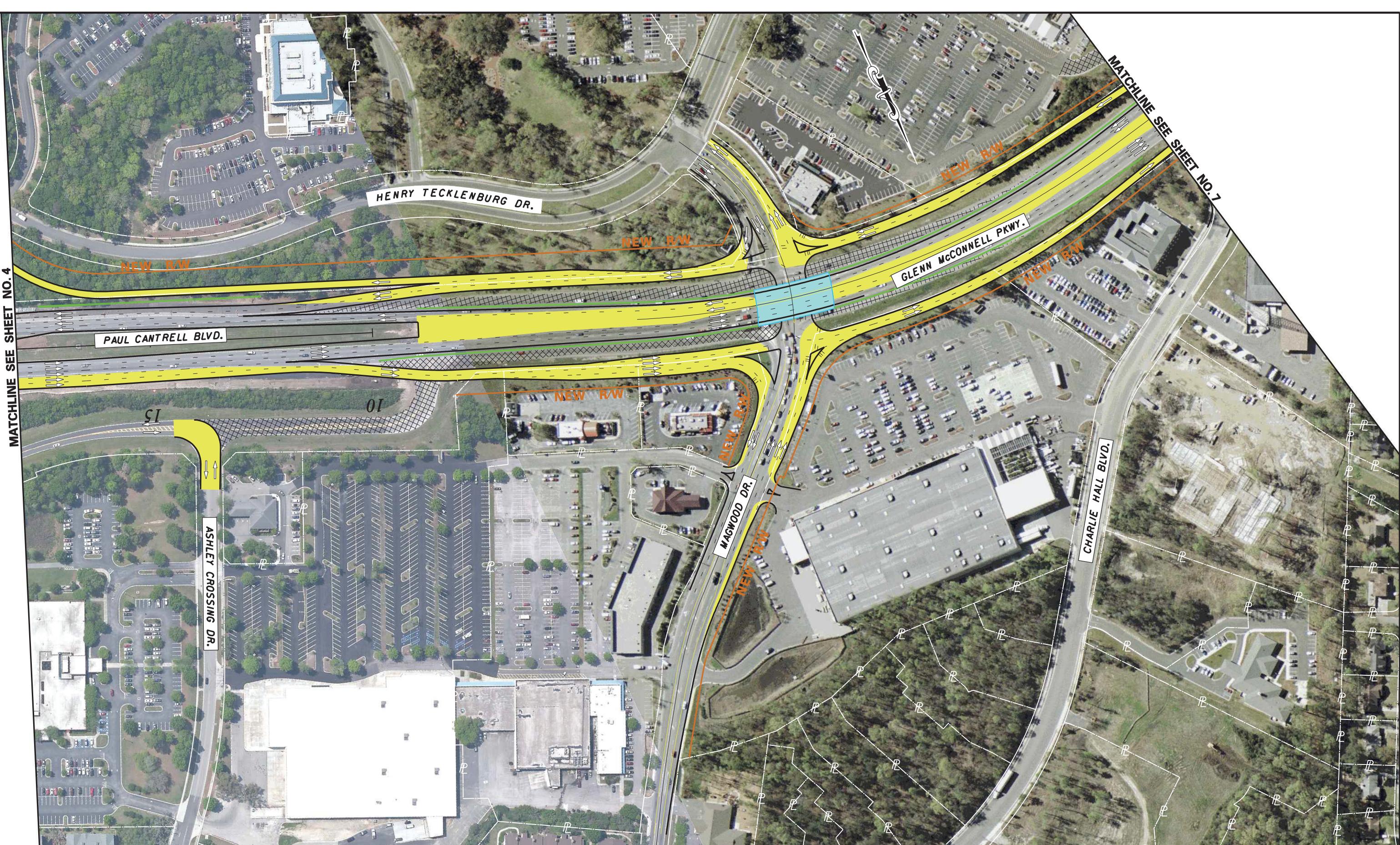


CAPACITY IMPROVEMENT STRATEGIES

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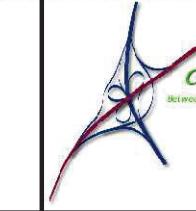
SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 5



CENTERLINE
 NEW R/W
 NEW MEDIAN BARRIER
 NEW RETAINING WALL
 Wetlands
 WETLANDS
 NEW BRIDGE
 NEW ROADWAY

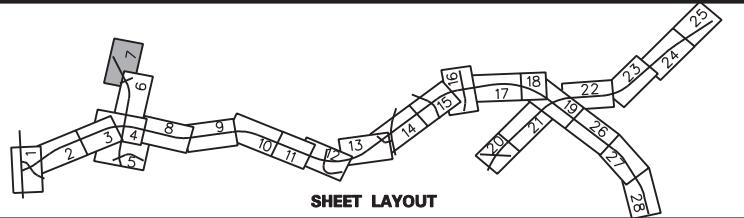
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CAPACITY IMPROVEMENT STRATEGIES

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SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 6



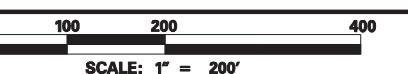
LEGEND

- CENTERLINE
— NEW R/W
— NEW MEDIAN BARRIER
— NEW RETAINING WALL
— Wetlands — WETLANDS

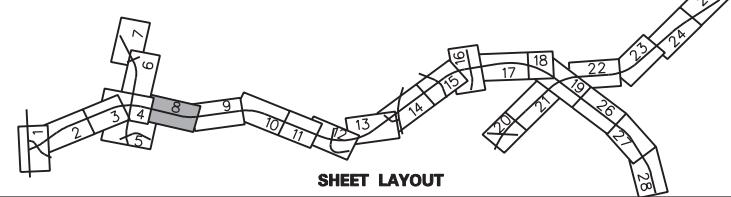
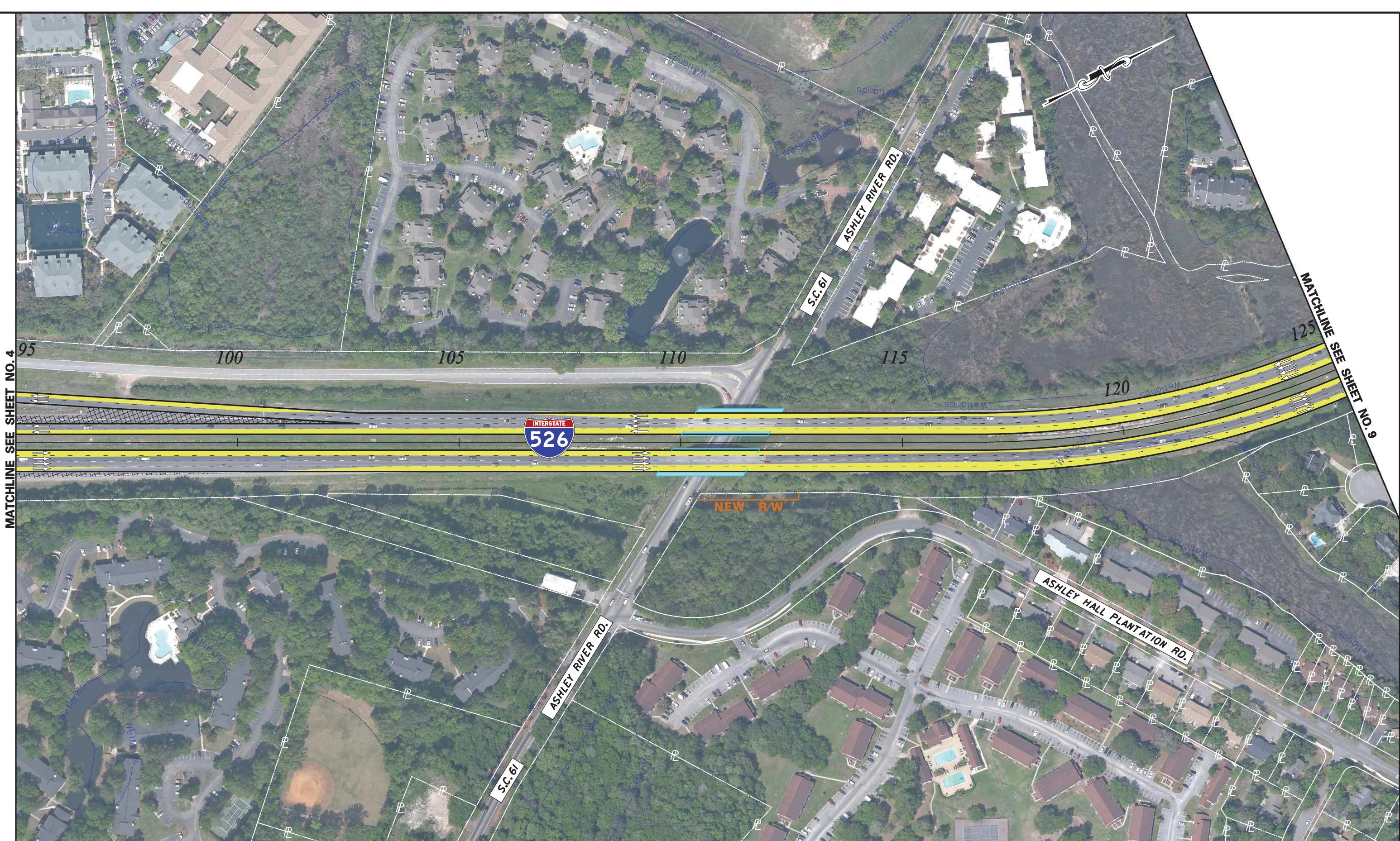
■ NEW BRIDGE
■ NEW ROADWAY



CAPACITY IMPROVEMENT STRATEGIES



OGRAPHY DATE: 2011 MARCH 2012 SHEET 7



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

NEW BRIDGE
NEW ROADWAY

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CAPACITY IMPROVEMENT STRATEGIES

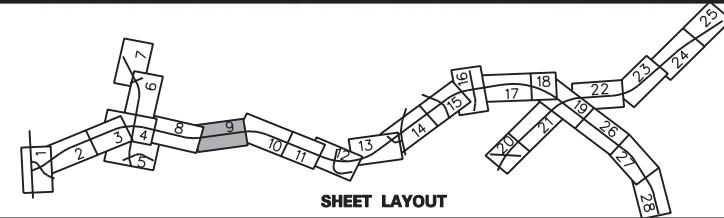
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PHOTOGRAPHY DATE: MARCH 2012 SHEET 8

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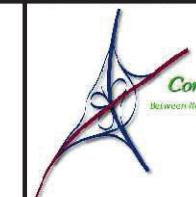


MATCHLINE SEE SHEET NO. 10



- LEGEND**
- CENTERLINE
 - NEW R/W
 - NEW MEDIAN BARRIER
 - NEW RETAINING WALL
 - Wetlands

NEW ROADWAY

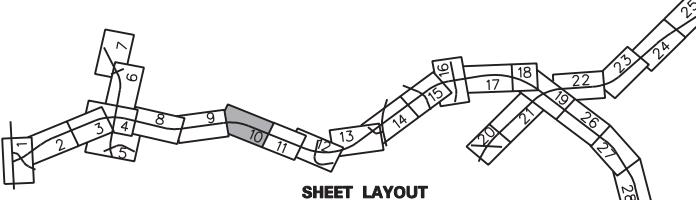


Corridor Analysis
Between North Charleston and West Ashley

CAPACITY IMPROVEMENT STRATEGIES



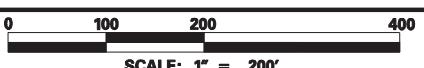
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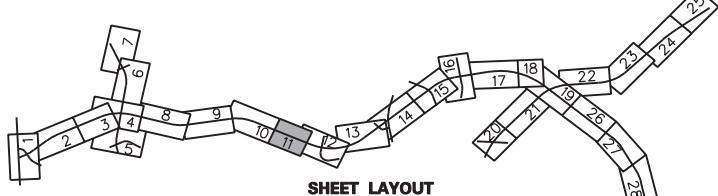


— CENTERLINE
 — NEW BRIDGE
 — NEW R/W
 — NEW MEDIAN BARRIER
 — NEW RETAINING WALL
 — Wetlands
 — WETLANDS



CAPACITY IMPROVEMENT STRATEGIES

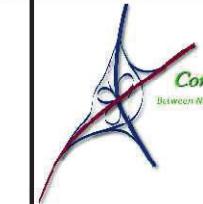




LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands — WETLANDS

NEW BRIDGE
NEW ROADWAY



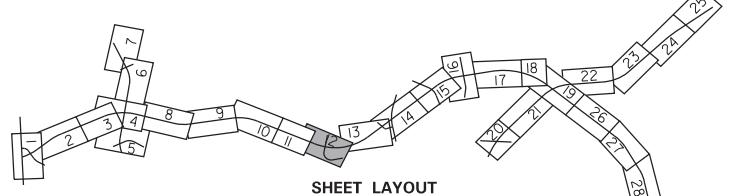
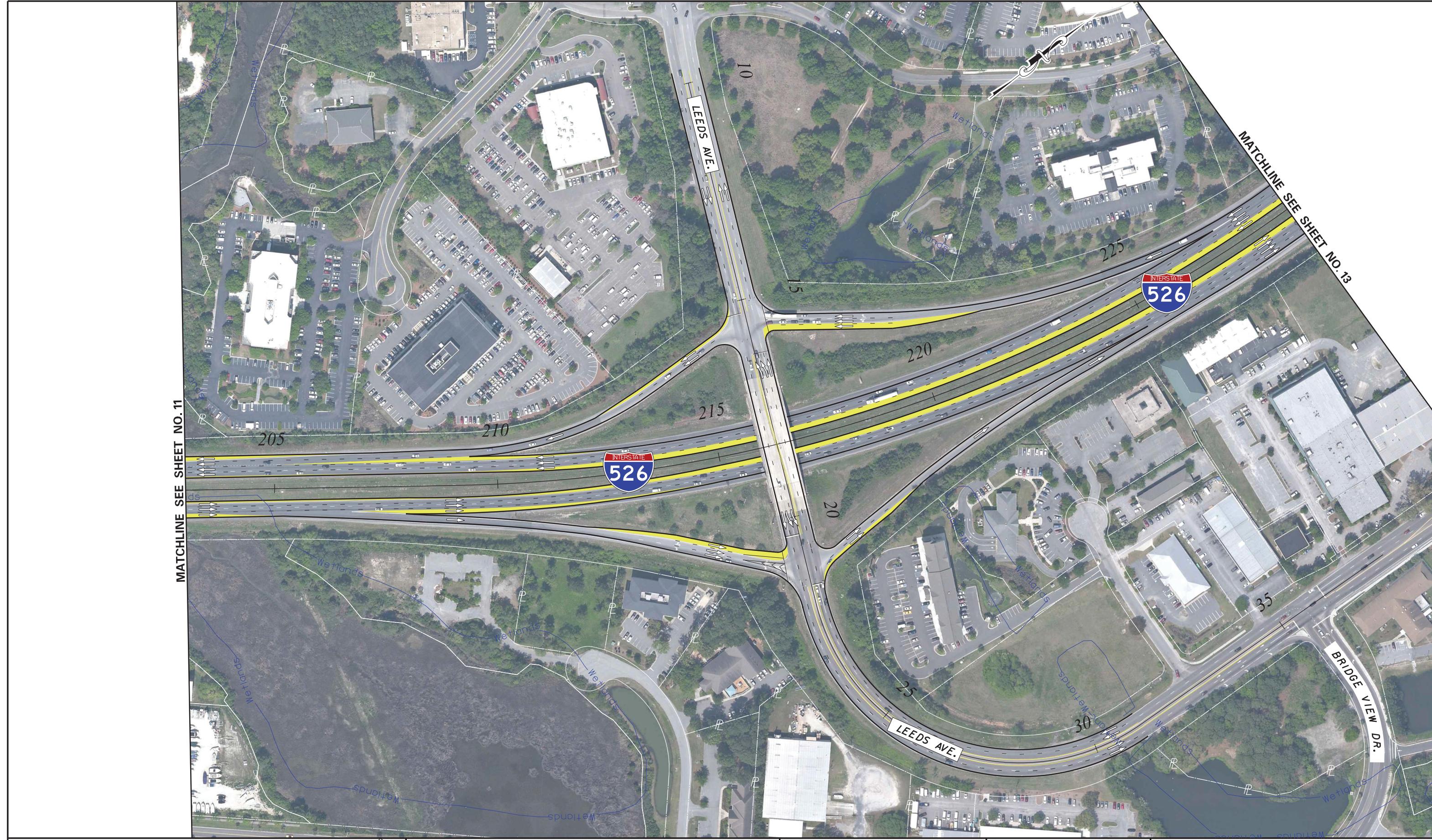
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SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012

SHEET 11

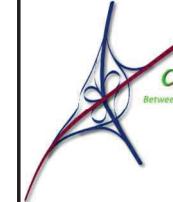


LEGEND

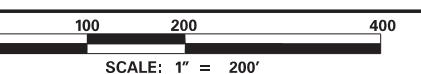
- CENTERLINE
— NEW R/W
— NEW MEDIAN BARRIER
— NEW RETAINING WALL
— Wetlands — WETLANDS

■ NEW BRIDGE
■ NEW ROADWAY

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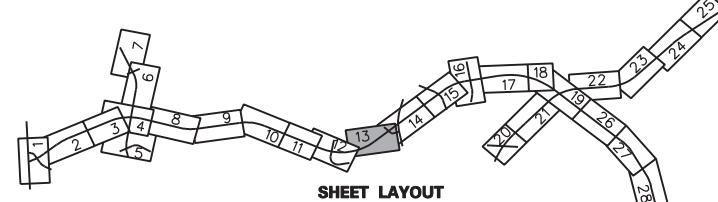
CAPACITY IMPROVEMENT STRATEGIES



PHOTOGRAPHY DATE: 2011 MARCH 2012 SHEET 12



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10/9/2012

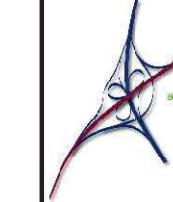


LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

NEW BRIDGE
NEW ROADWAY

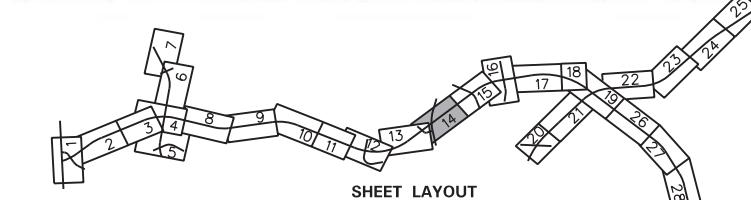
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South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES

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SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 13



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- Wetlands

■ NEW BRIDGE ■ NEW ROADWAY



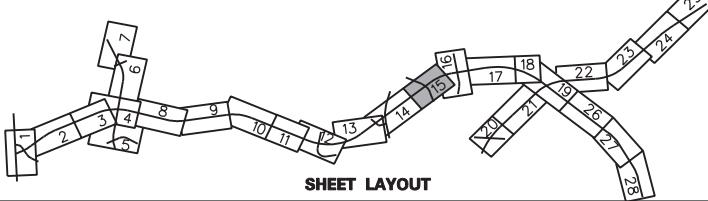
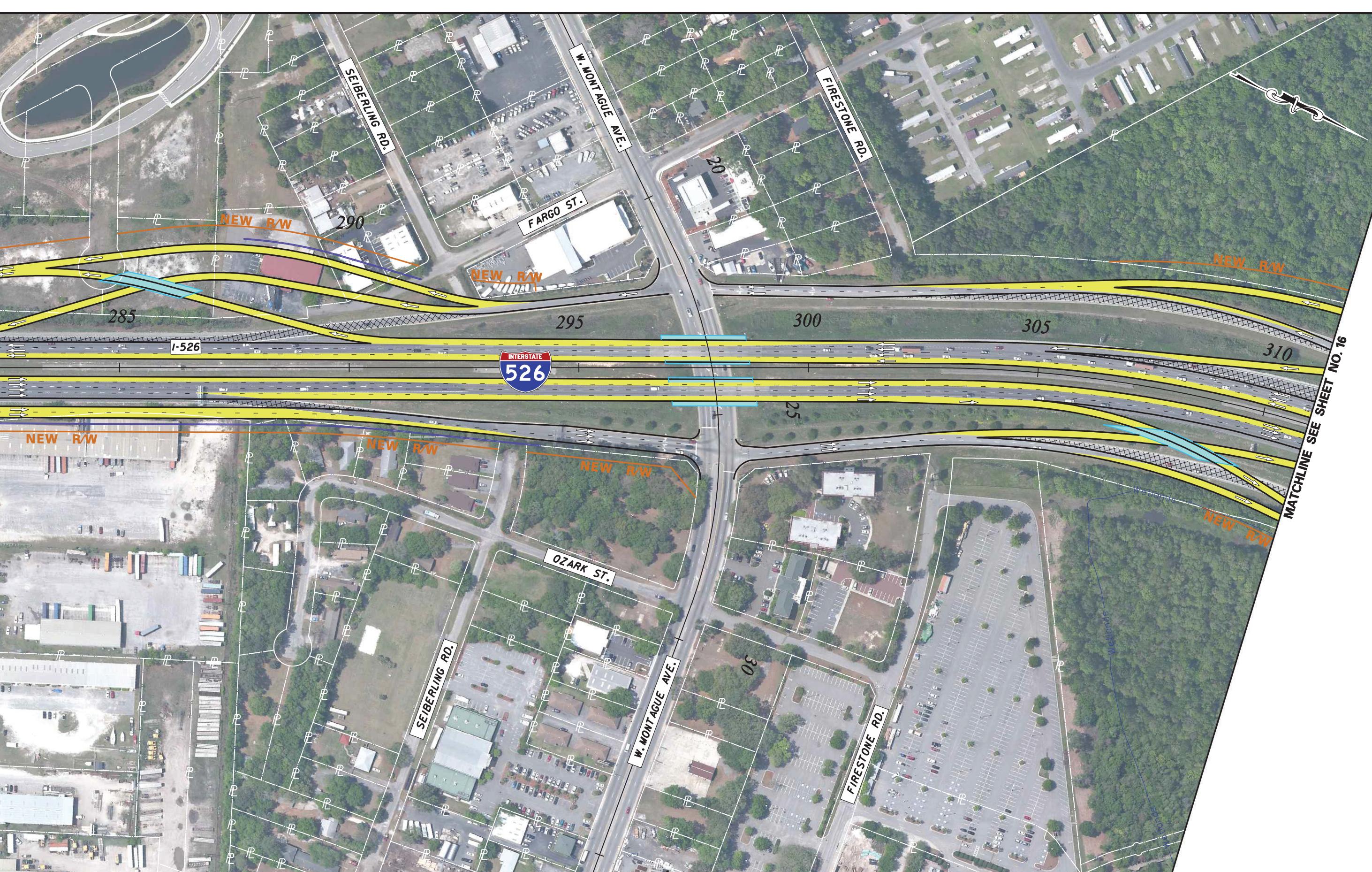
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SCALE: 1" = 200'



PHOTOGRAPHY DATE: MARCH 2012 SHEET 14

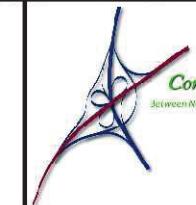
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LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS
- NEW BRIDGE
- NEW ROADWAY

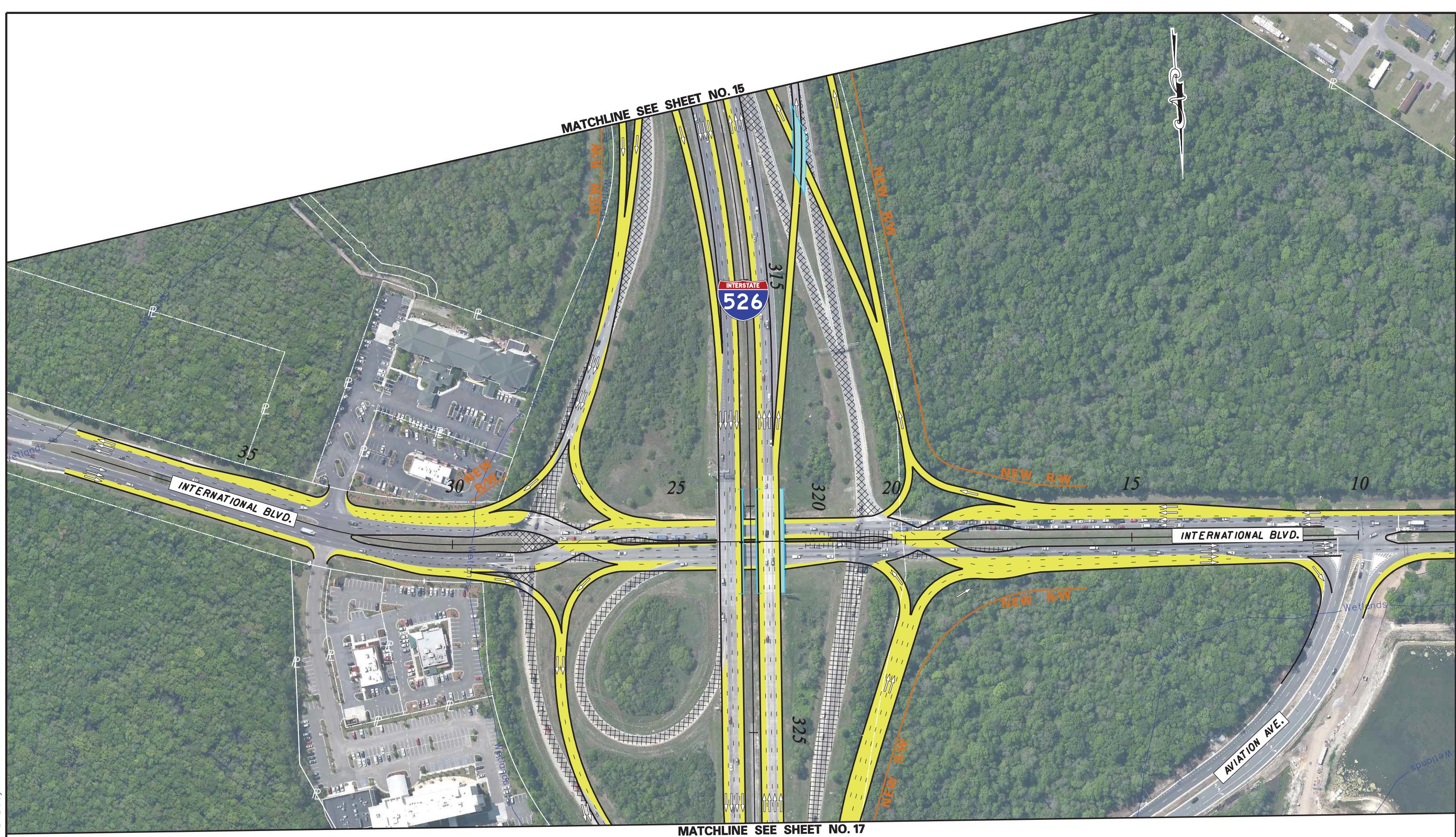
SCDOT
South Carolina Department of Transportation



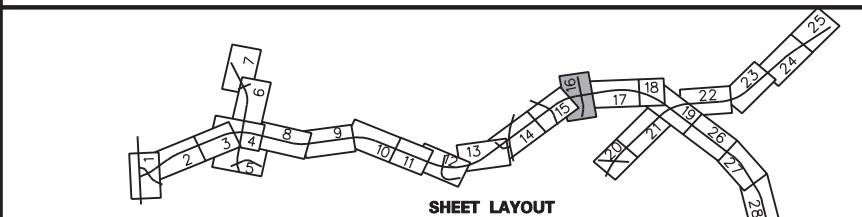
CAPACITY IMPROVEMENT STRATEGIES

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SCALE: 1" = 200'

PHOTOGRAPHY DATE: 2011 MARCH 2012 SHEET 15



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LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

NEW BRIDGE
NEW ROADWAY

SCDOT
South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES

0	100	200	400
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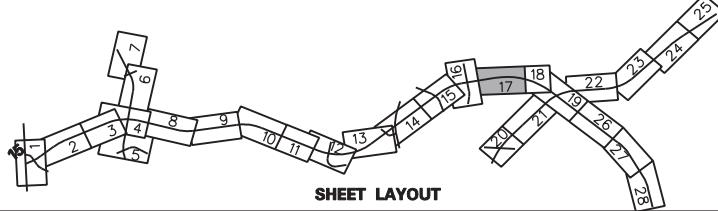
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PHOTOGRAPHY DATE: MARCH 2012

SHEET 16

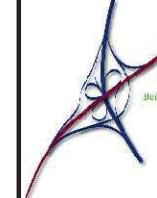


10/9/2012

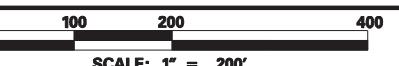


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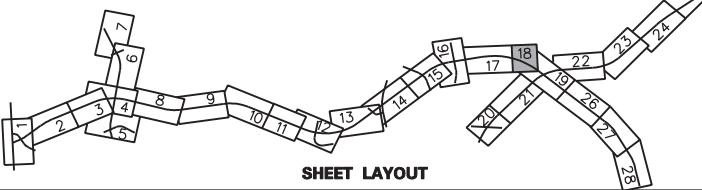
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CAPACITY IMPROVEMENT STRATEGIES

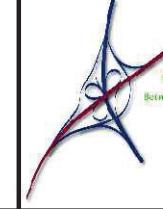


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LEGEND

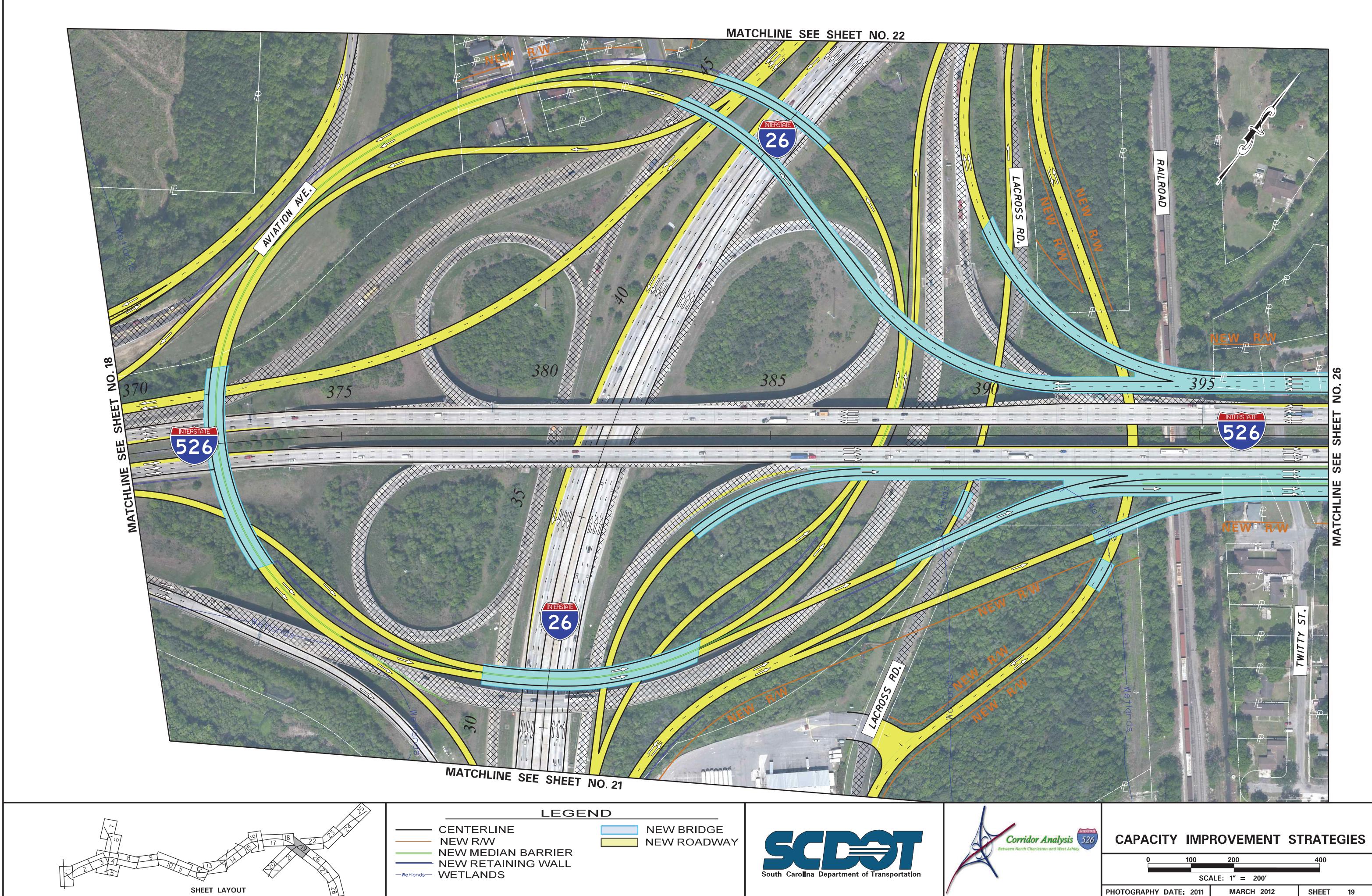
- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- NEW BRIDGE
- NEW ROADWAY



CAPACITY IMPROVEMENT STRATEGIES

0 100 200 400
SCALE: 1" = 200'

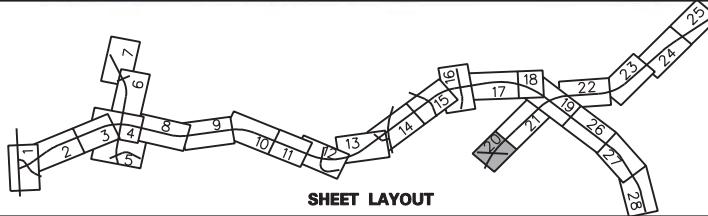
PHOTOGRAPHY DATE: MARCH 2012 SHEET 18



MATCHLINE SEE SHEET NO. 21



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LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- NEW BRIDGE
- NEW ROADWAY

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South Carolina Department of Transportation



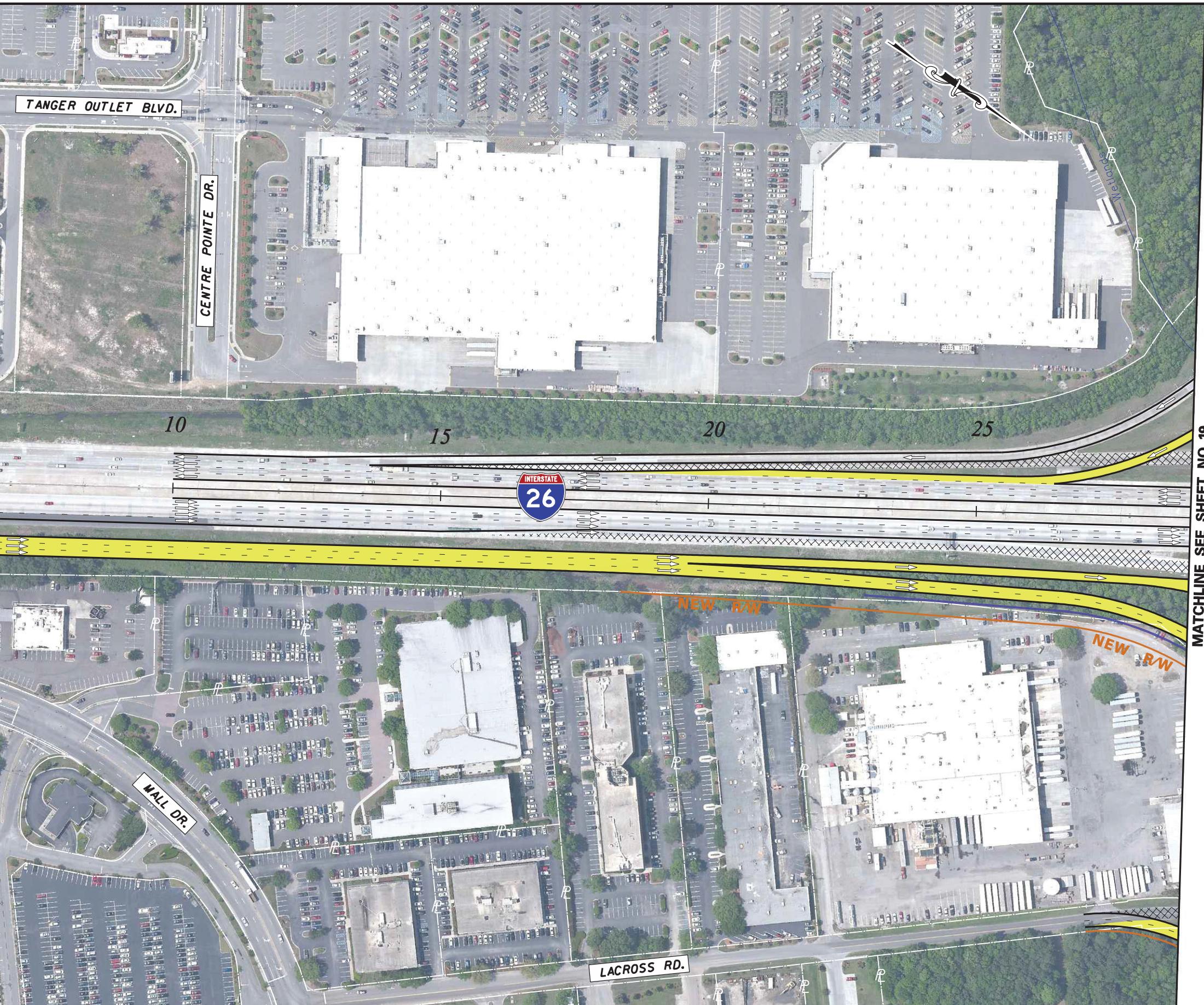
CAPACITY IMPROVEMENT STRATEGIES

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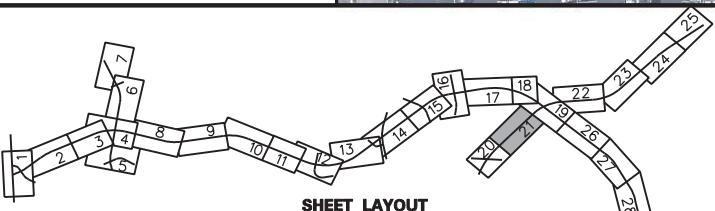
SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 20

MATCHLINE SEE SHEET NO. 20



MATCHLINE SEE SHEET NO. 19



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

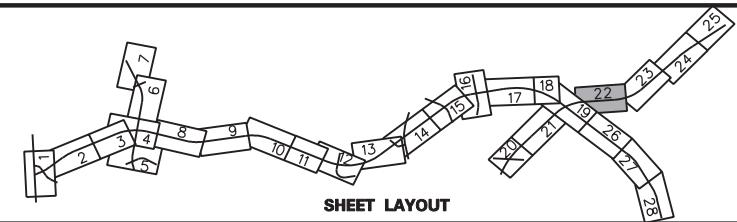
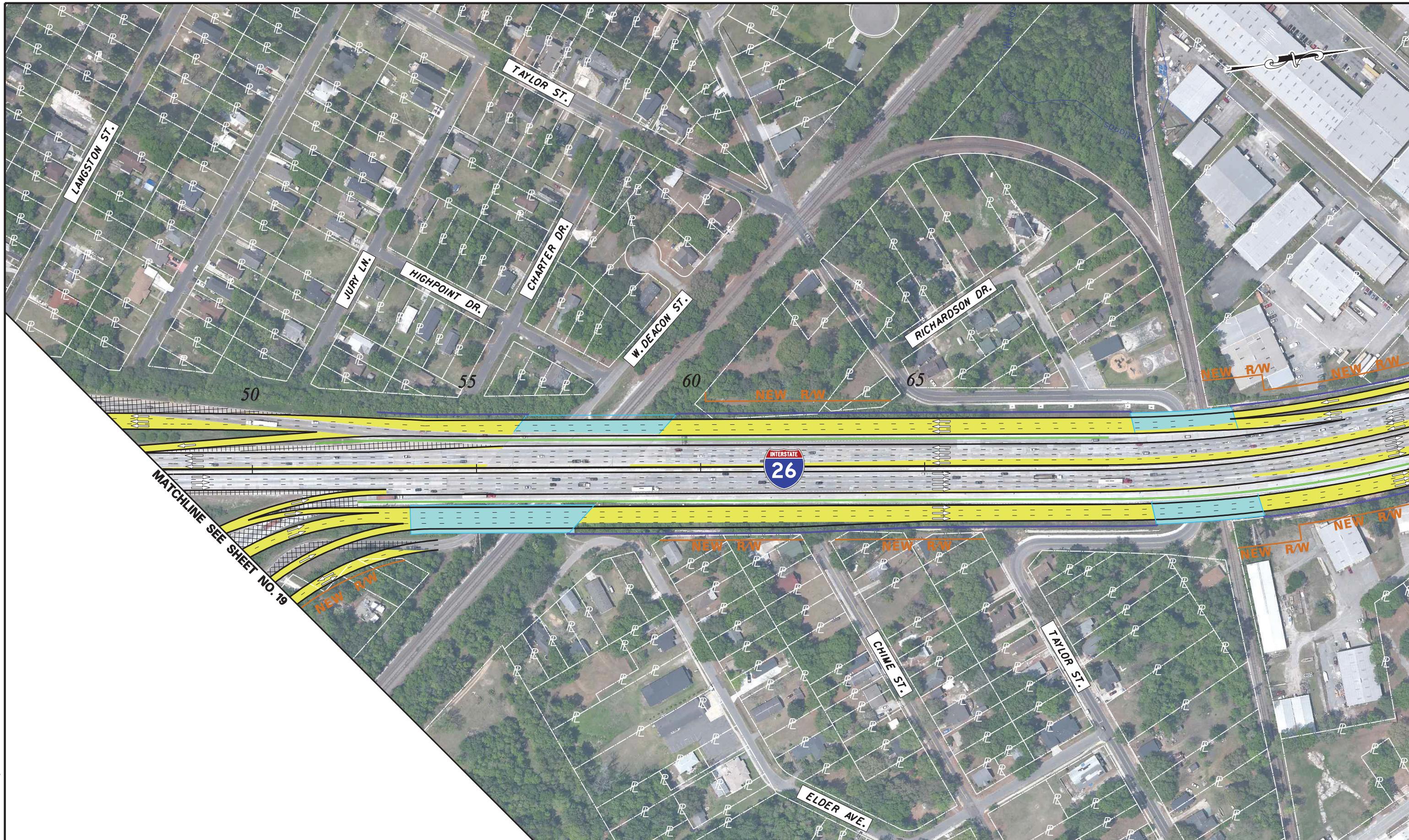
- NEW BRIDGE
- NEW ROADWAY

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South Carolina Department of Transportation

**CAPACITY IMPROVEMENT STRATEGIES**

0 100 200 400
SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 21



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

NEW BRIDGE
NEW ROADWAY

SCDOT
South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES

0 100 200 400

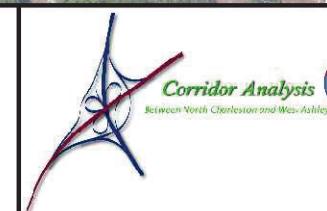
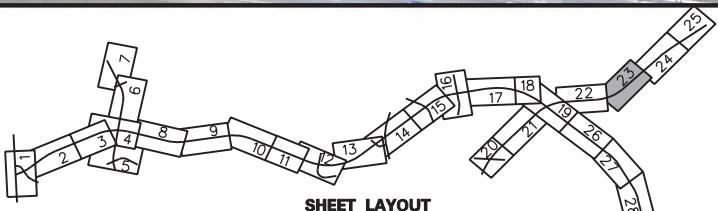
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PHOTOGRAPHY DATE: MARCH 2012 SHEET 22



10/9/2012 I:\\11059\\Capacity Improvements\\PLAN-23.dgn

- LEGEND**
- CENTERLINE
 - NEW R/W
 - NEW MEDIAN BARRIER
 - NEW RETAINING WALL
 - Wetlands
 - NEW ROADWAY

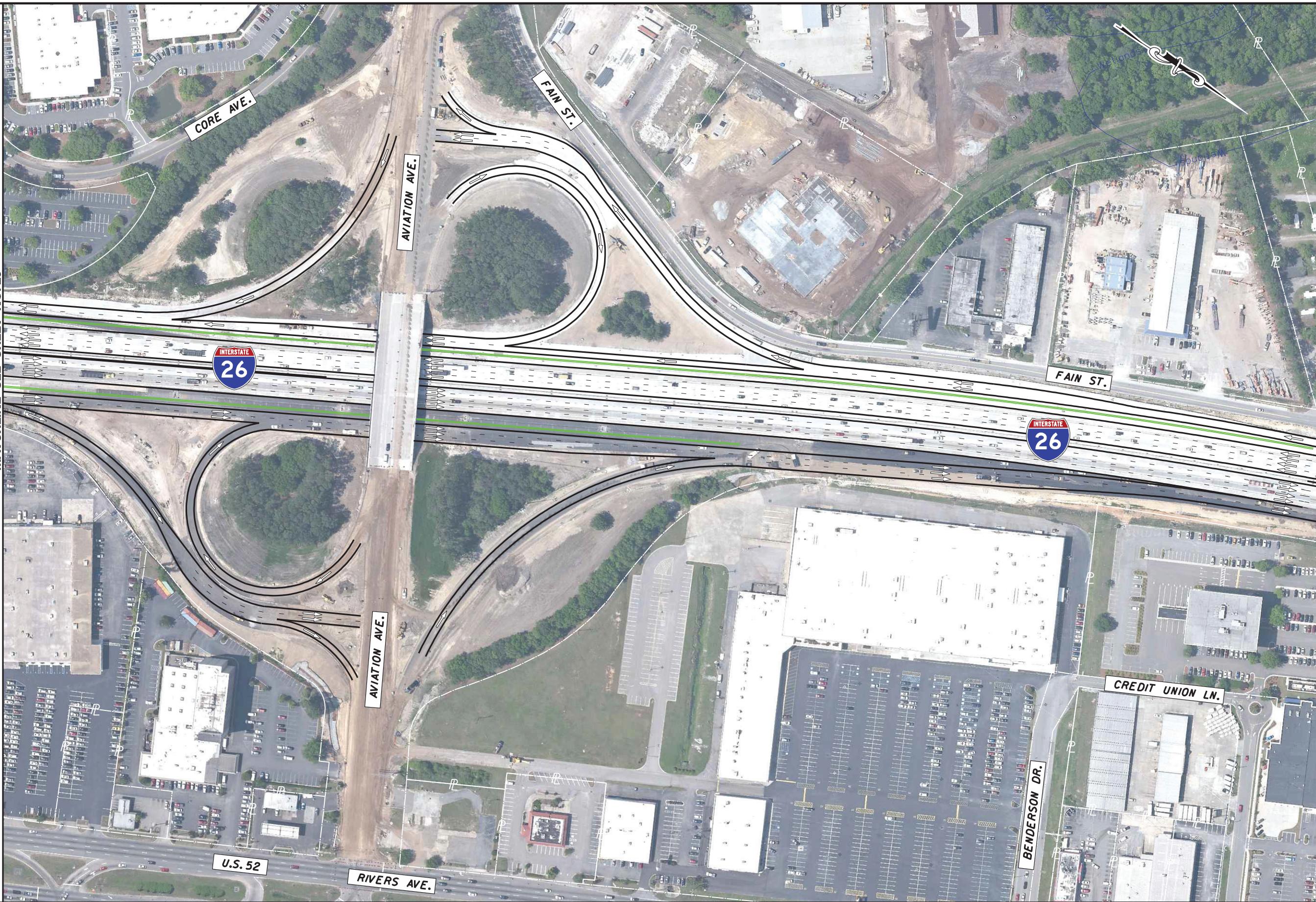


CAPACITY IMPROVEMENT STRATEGIES

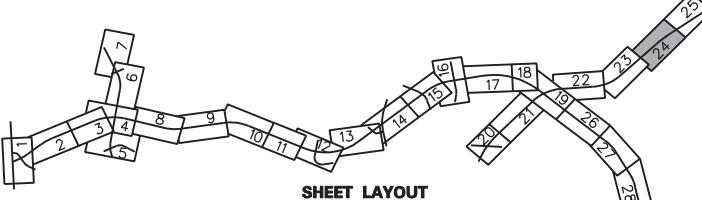


PHOTOGRAPHY DATE: MARCH 2012 SHEET 23

MATCHLINE SEE SHEET NO. 23



MATCHLINE SEE SHEET NO. 25



LEGEND

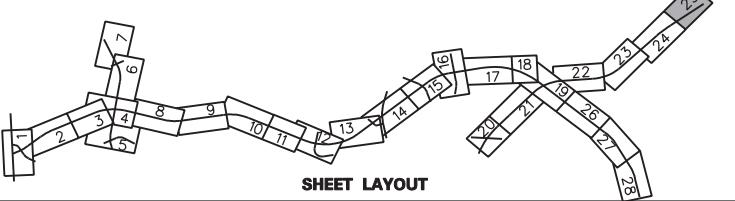
- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- NEW ROADWAY
- NEW BRIDGE



CAPACITY IMPROVEMENT STRATEGIES

0 100 200 400
SCALE: 1" = 200'

MATCHLINE SEE SHEET NO. 24



LEGEND

- CENTERLINE
- NEW BRIDGE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- WETLANDS
- NEW ROADWAY

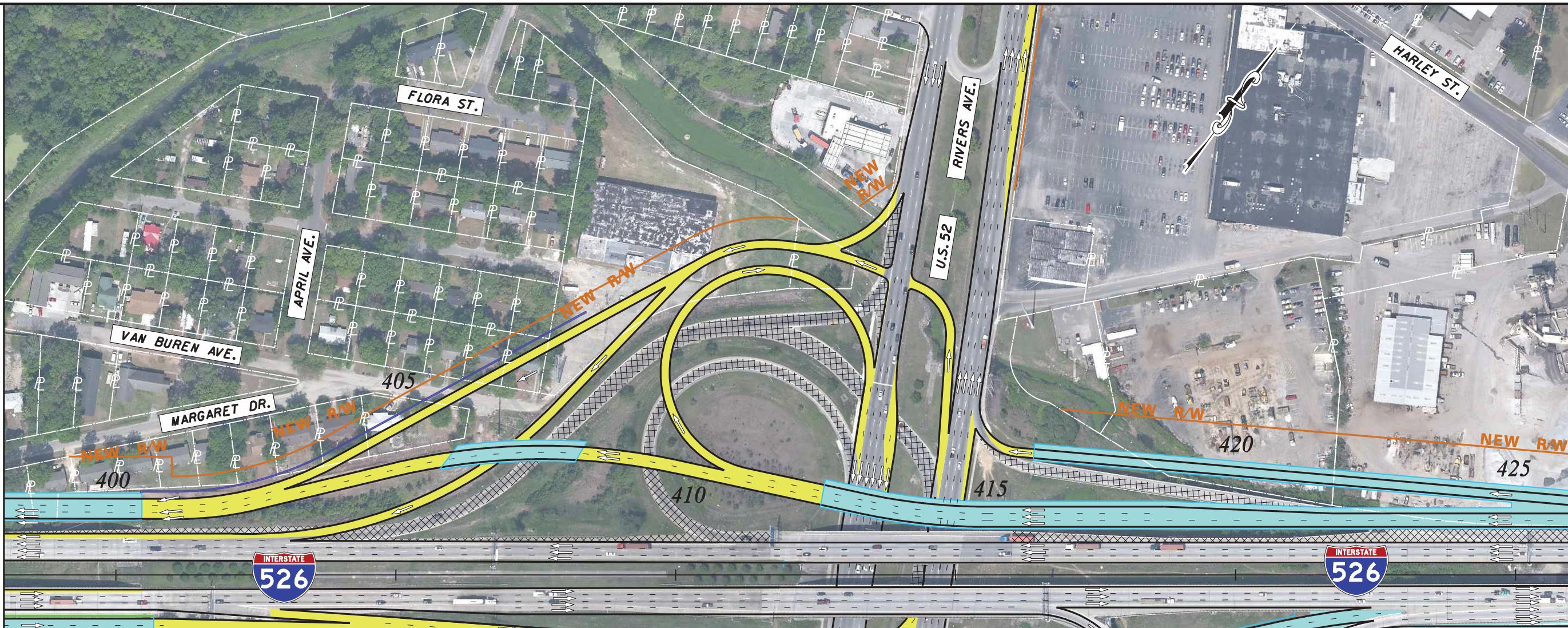
SCDOT
South Carolina Department of Transportation

**CAPACITY IMPROVEMENT STRATEGIES**

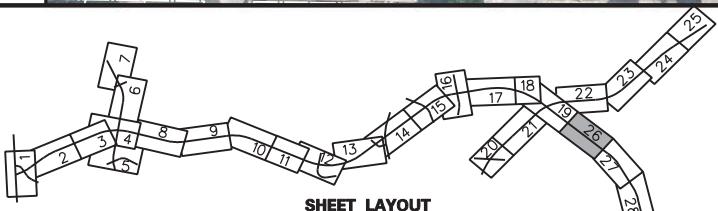
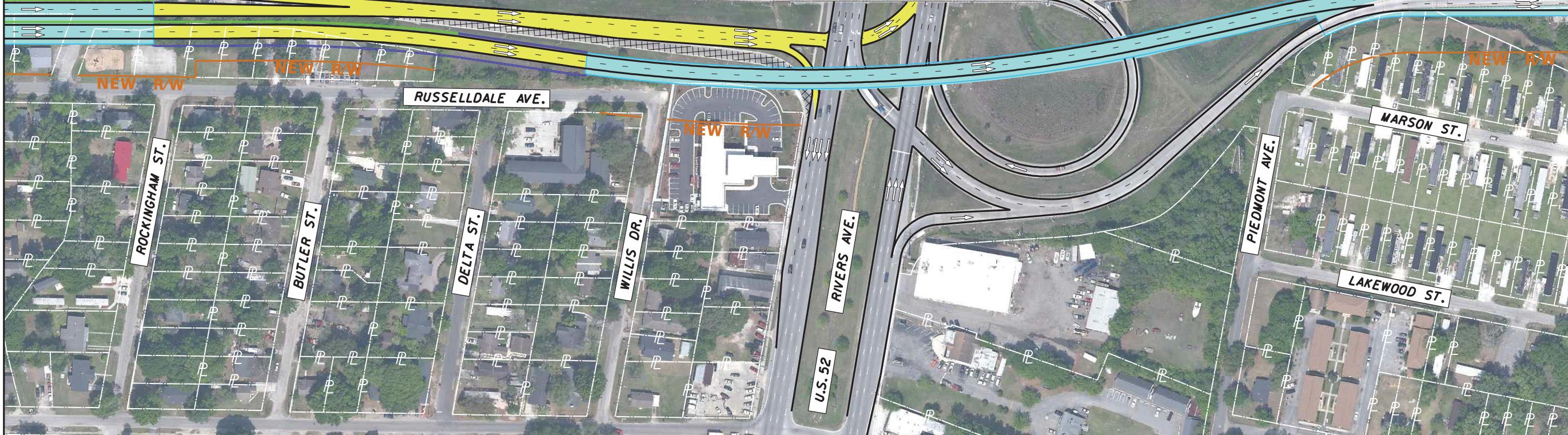
0 100 200 400
SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 25

MATCHLINE SEE SHEET NO. 19

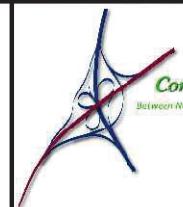
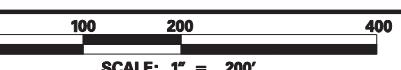


MATCHLINE SEE SHEET NO. 27



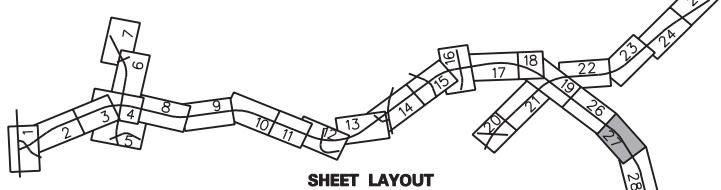
- LEGEND**
- CENTERLINE
 - NEW R/W
 - NEW MEDIAN BARRIER
 - NEW RETAINING WALL
 - Wetlands
 - WETLANDS

- NEW BRIDGE
- NEW ROADWAY

**CAPACITY IMPROVEMENT STRATEGIES**



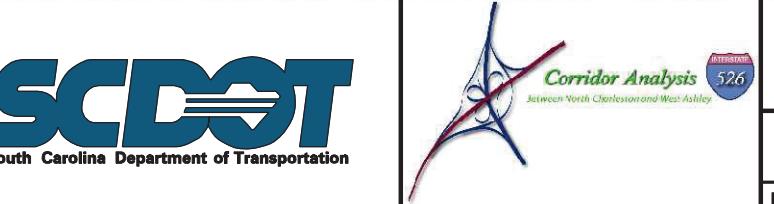
10/9/2012 I:\\11059\\Capacity Improvements\\PLAN-27.dgn



LEGEND

- CENTERLINE
- NEW R/W
- NEW MEDIAN BARRIER
- NEW RETAINING WALL
- Wetlands
- WETLANDS

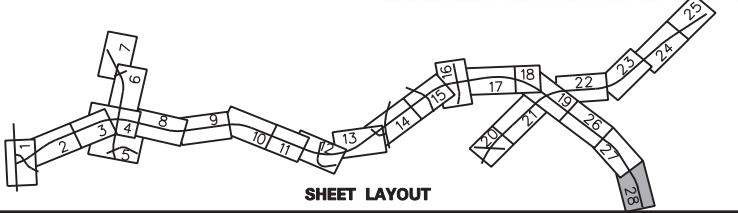
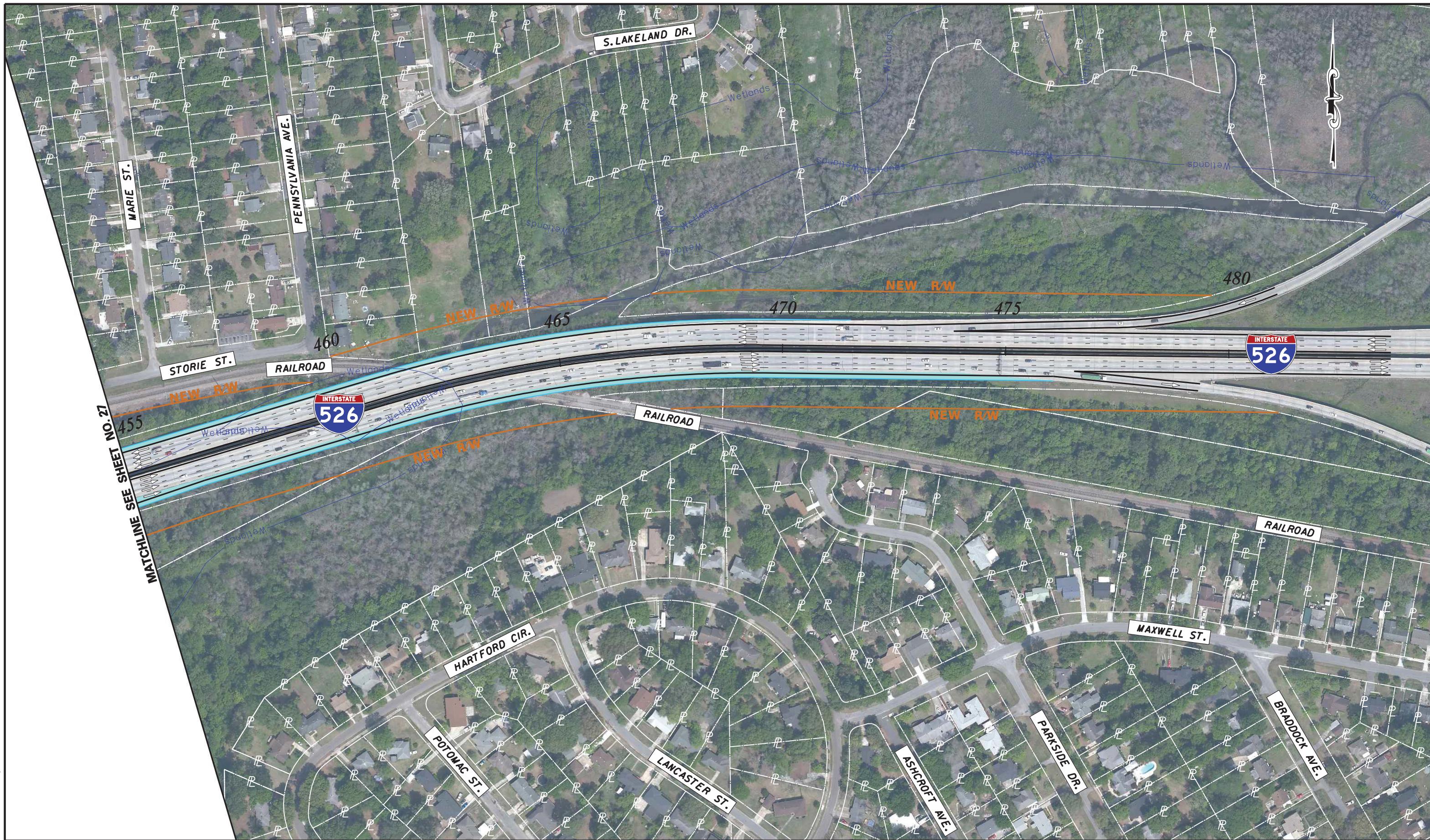
SCDOT
South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES

0 100 200 400
SCALE: 1" = 200'

PHOTOGRAPHY DATE: MARCH 2012 SHEET 27

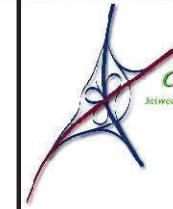


LEGEND

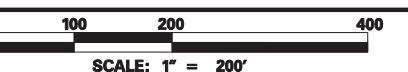
- CENTERLINE
— NEW R/W
— NEW MEDIAN BARRIER
— NEW RETAINING WALL
— Wetlands — WETLANDS

■ NEW BRIDGE
■ NEW ROADWAY

SCDOT
South Carolina Department of Transportation



CAPACITY IMPROVEMENT STRATEGIES



PHOTOGRAPHY DATE: 2011 **MARCH** 2012 **SHEET** 28