

Bengal Boulevard

Capital Improvements



Purpose

Restore Pavement Life

Improve Safety

Increase Level of Service

**Correct Storm Drain
Deficiencies**

Neighborhood Beautification

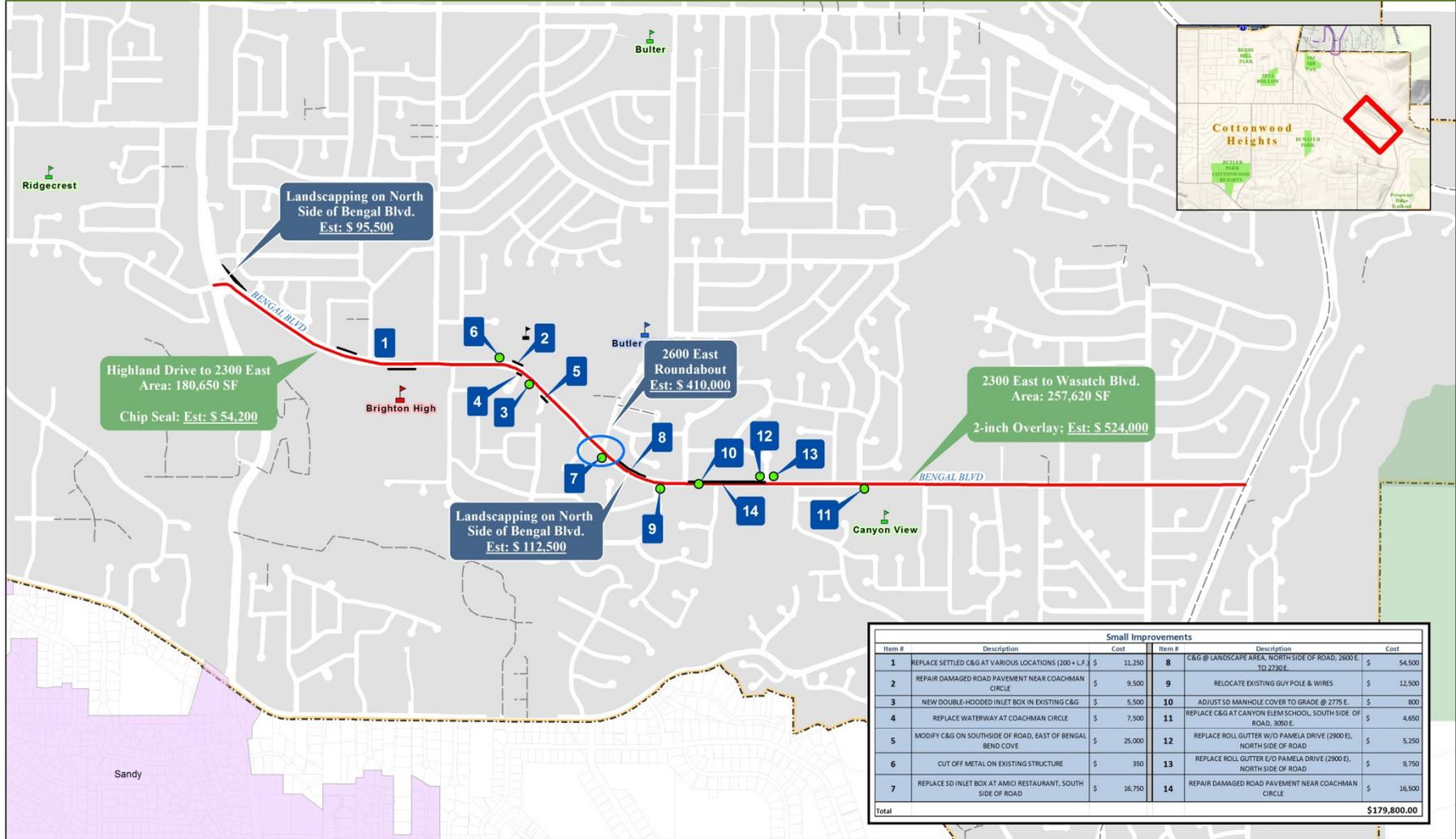
Reduce Delay

**Improve Neighborhood
Pedestrian Access**

**ADT – Upper Bengal
Boulevard is 9985**

Traffic Volume

BENGAL BOULEVARD - MENU OF OPTIONS



FEBRUARY, 2014

Budget - \$1.3 million

Project Options

1. Overlay
2. Round-a-bout
3. Small Projects
4. Hillside Imp
5. Landscaping
Highland
6. Sidewalk Extension
Phase 1
7. Storm Drain and
Sidewalk Phase 2
8. 4th Leg

Bengal Blvd Capital Project - 2014

Cottonwood Heights

Recommendations and Ranking Priority Projects

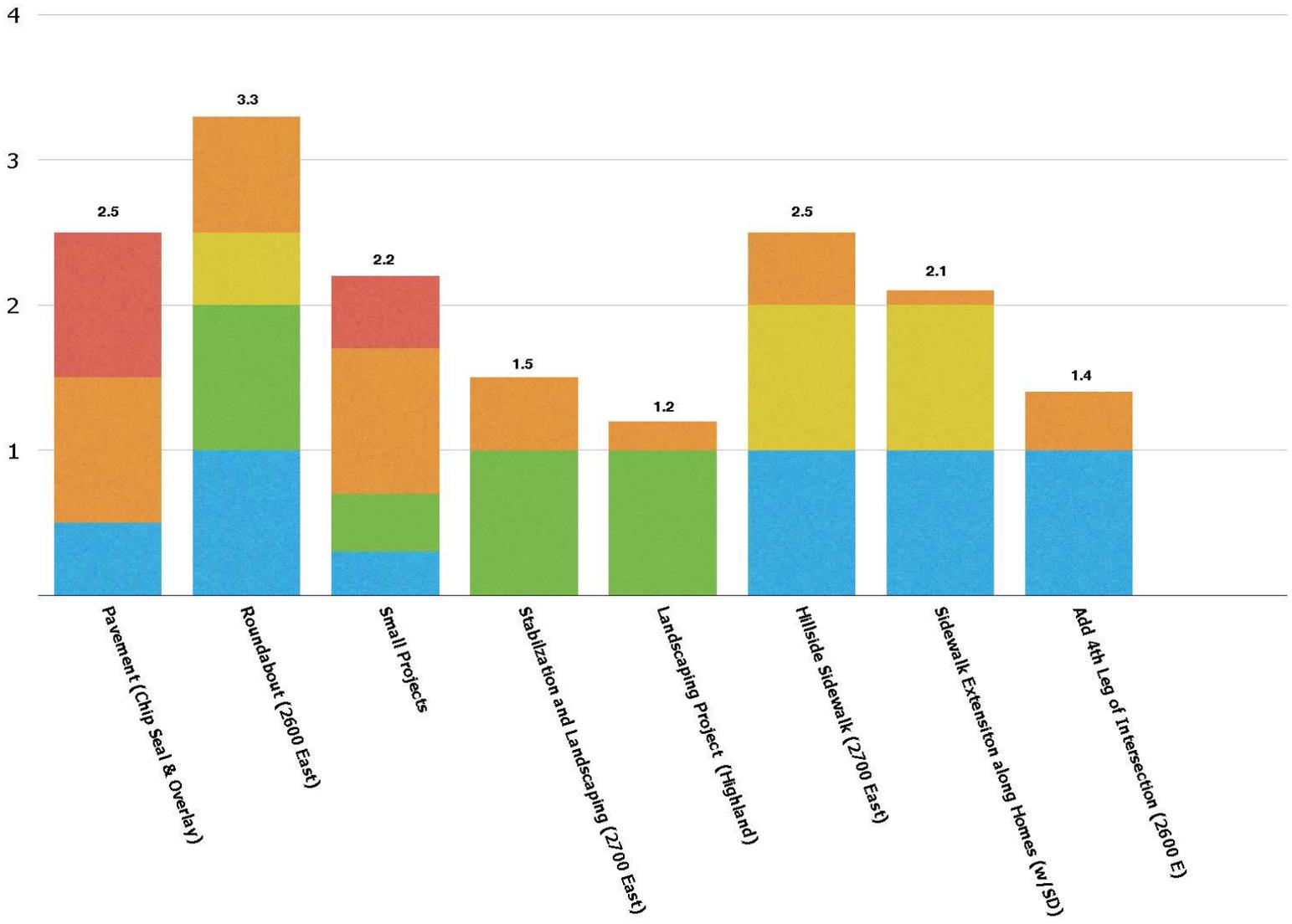
February, 2014

Ranking Priority	Project	Location	Cost	Criteria for Ranking
1	Chip seal Project	Highland Drive to Brighton High School	\$60,000	Current asphalt conditions on Bengal Blvd warrant substantial pavement improvements. An overlay will remedy the asphalt deterioration. These improvements will increase safety for residents and provide an aesthetic improvement to the roadway
	Overlay Project	Brighton High School to Wasatch Blvd.	\$524,000	
2	Roundabout Project	2600 East	\$410,000	Roundabouts are considered safer than signalized intersections and the reduction in delay saves time and reduces air pollution. Roundabouts have fewer high speed traffic conflict points, so consequently they have fewer severe accidents. This project will also enhance the neighborhood feel on Bengal Blvd.
3	Small Roadway Projects	Varies	\$179,800	These projects will improve the overall condition and quality of the roadway.
4	Slope Stabilization and Landscaping Project along hillside	From 2600 East to Steffensen Dr. (2730 East)	\$112,000	Project will enhance the overall roadway and provide channel stabilization to prevent roadway damage during significant rainstorm events. The landscaping will beautify the area.
5	Landscaping Project	East of Highland Drive	\$95,500	Project will enhance the entrance to Bengal Blvd Roadway and provide community beautification to the area.
6	Sidewalk Extension	From 2600 East to Steffensen Dr. (2730 East)	\$65,000	Sidewalk with curb and gutter on north side of Bengal Blvd will increase pedestrian safety, and would provide connectivity onto Bengal Blvd.
7	Sidewalk Extension with Storm Drain	From Steffensen Dr. (2730 East) to Pamela Drive (2900 East)	\$465,000	Sidewalk with curb and gutter on north side of Bengal Blvd will increase pedestrian safety, and would provide connectivity onto Bengal Blvd.
8	Add 4th Leg Traffic Signal	2600 East	\$62,500	Improve safety at intersection and meet MUTCD standards. Intersection is configured for a 4 leg signal plan, while only 3 traffic signals exist.



■ Safety
 ■ Community / Beutification
 ■ Connectivity (alt.modes of transporation)
 ■ Cost / Benefit
 ■ Delayed Cost

Bengal Blvd. Project Priorization



1. Overlay & Chip



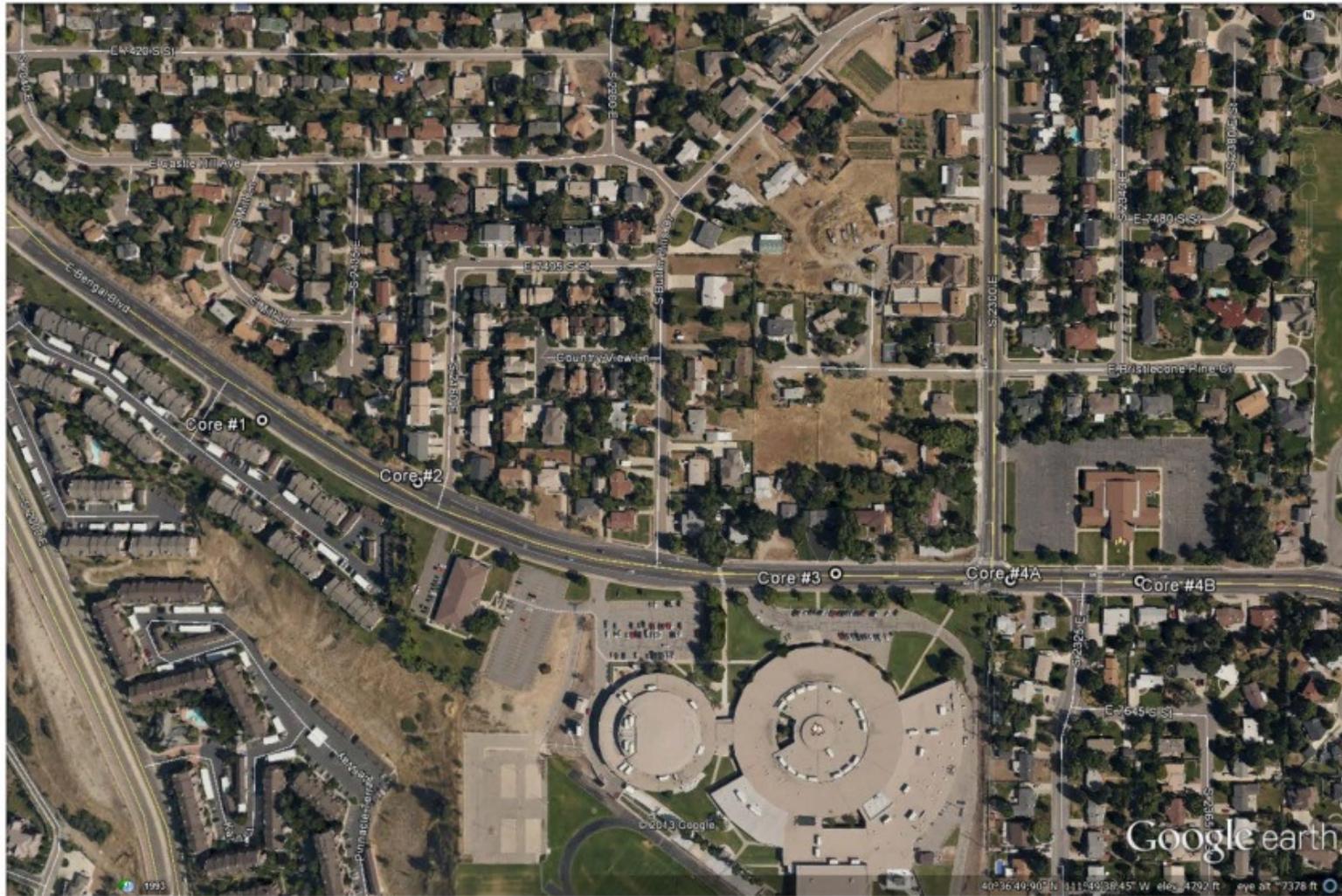
Bengal Boulevard Capital Improvements

Asphalt Condition

Primary Pavement Problems:

1. Shoving
2. Rutting
3. Block Cracking
4. Alligatoring
5. Utility Patch Failure
6. Delamination



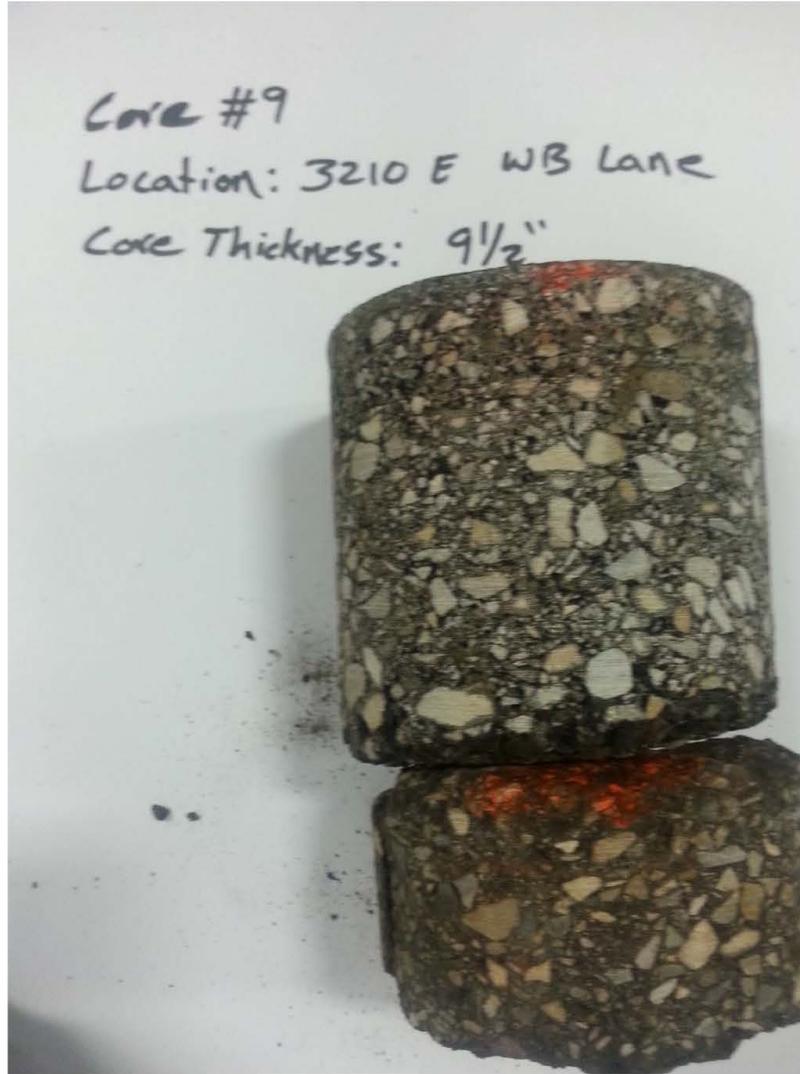


Core Layout

Bengal Boulevard Asphalt Investigation
Cottonwood Heights
Project #: 359-016

Plate
A-1

Core #9
Location: 3210 E WB Lane
Core Thickness: 9 1/2"



GeoStrata

Core #9

Bengal Boulevard Asphalt Investigation
Cottonwood Heights
Project #: 359-016

**Plate
B-9**

Bengal Boulevard Capital Improvements



GeoStrata

Core #10

Bengal Boulevard Asphalt Investigation
Cottonwood Heights
Project #: 359-016

**Plate
B-10**

Core #5
Location: 2561
Core Thickness: 5 1/2"
UT&L Thickness: UNKNOWN



Core #5

Bengal Boulevard Asphalt Investigation
Cottonwood Heights
Project #: 359-016

**Plate
B-5**

Core #7
Location: 2855 E. WB Lane
Core thickness: 3 1/2"
* Appears to be CTB



GeoStrata

Core #7

Bengal Boulevard Asphalt Investigation
Cottonwood Heights
Project #: 359-016

**Plate
B-7**

Core # 8

Location: 3050 E. Center Lane

Core Thickness: 5"

UTBC Thickness: 6"



GeoStrata

Core #8

Bengal Boulevard Asphalt Investigation
Cottonwood Heights
Project #: 359-016

**Plate
B-8**

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2600 East



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Roadside Improvements



Bengal Boulevard Capital Improvements

3. Small Projects



Bengal Boulevard Capital Improvements

3. Small Projects

Small Projects



Bengal Boulevard Capital Improvements

Small Projects



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Small Projects



Bengal Boulevard Capital Improvements

Roadside Improvements



Bengal Boulevard Capital Improvements

Small Projects: Roadside Improvements



Bengal Boulevard Capital Improvements

Roadside Improvements



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4. Slope Stabilization Beautification



Roadside Improvements



Erosion Control
&
Landscaping Beautification

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5. Highland Landscaping

6. Slope Stabilization Beautification & Sidewalk



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7. Neighborhood Sidewalk



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Roadside Improvements

Storm Drain Extension



Sidewalk & Storm Drain



Bengal Boulevard Capital Improvements

Sidewalk & Storm Drain



Bengal Boulevard Capital Improvements

Sidewalk & Storm Drain



Bengal Boulevard Capital Improvements

Roadside Improvements



Bengal Boulevard Capital Improvements

Roadside Improvements



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8. Add 4th Leg – 2600 East



4th Way Signal



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