


Administration Department



Interoffice Memorandum

TO: City Council

FROM: Robert A. Pettit, Mayor 

DATE: August 28, 2020

SUBJECT: Virtual Special Called Study Session of Monday, August 31, 2020

The City of North Augusta will conduct a virtual Special Called Study Session on Monday, August 31, 2020 at 6:00 P.M. using GoToMeeting online conferencing software. The virtual Special Called Study Session will be streamed online for public viewing at:

- City Facebook page: To access, visit www.facebook.com/cityofnorthaugusta or search "City of North Augusta – Public Information" on www.Facebook.com
- City YouTube page: To access, visit https://www.youtube.com/channel/UCRLLD_cnQ68YROgUGaE_22Q or search "City of North Augusta Public Information" on www.YouTube.com

The following is among the topics for discussion and review:

ITEM 1. PUBLIC SAFETY: Fire Station 1 – Council Update

Jim Clifford, City Administrator, and Rachele Moody, Assistant City Administrator, will update Council on the progress of Fire Station 1 including the projected construction timeline.

ITEM 2. PUBLIC SAFETY: Public Safety Headquarters - Council Update

Jim Clifford and Rachele Moody will provide Council an update on the design status of Public Safety Headquarters, as well as, cost estimates for designs.

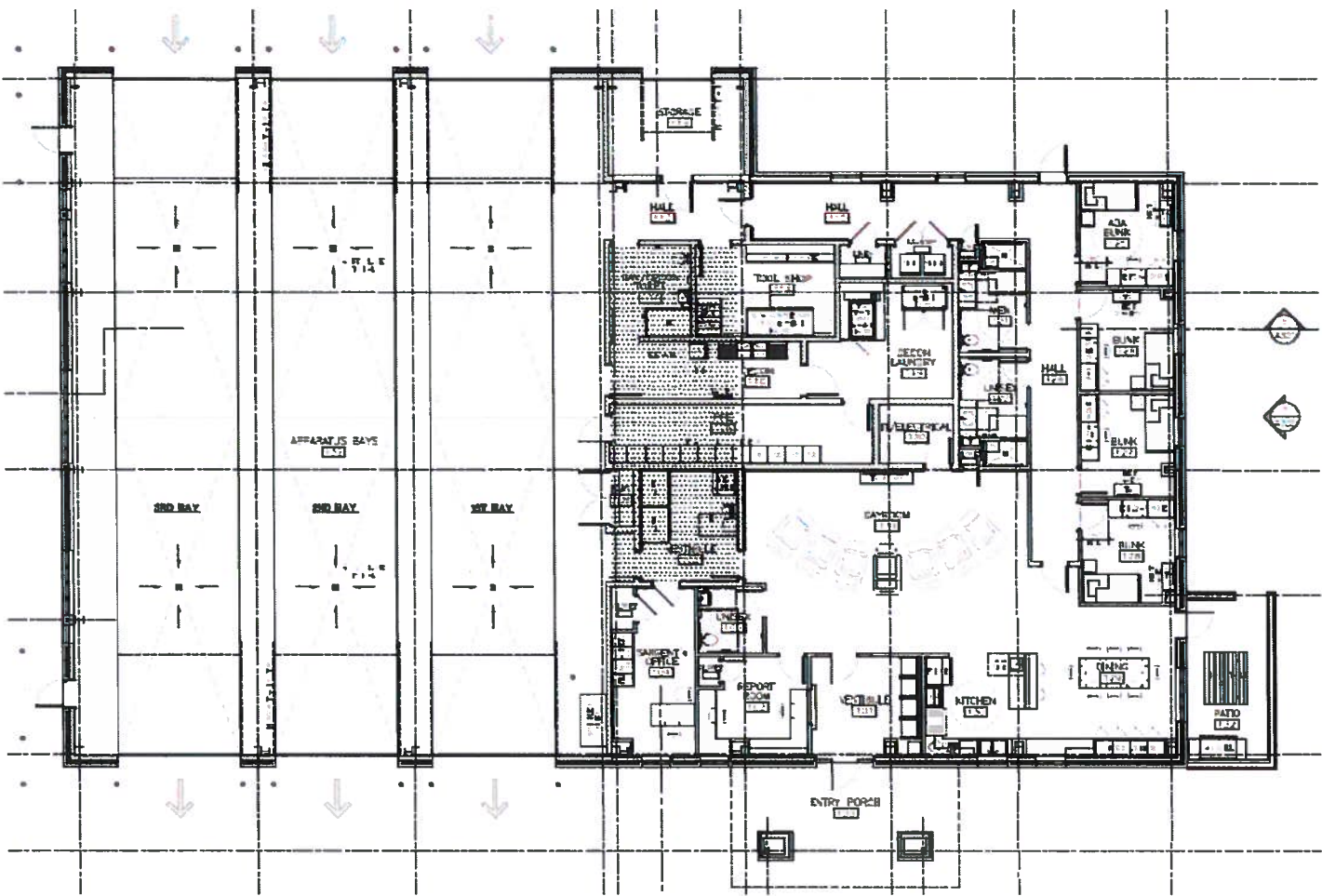
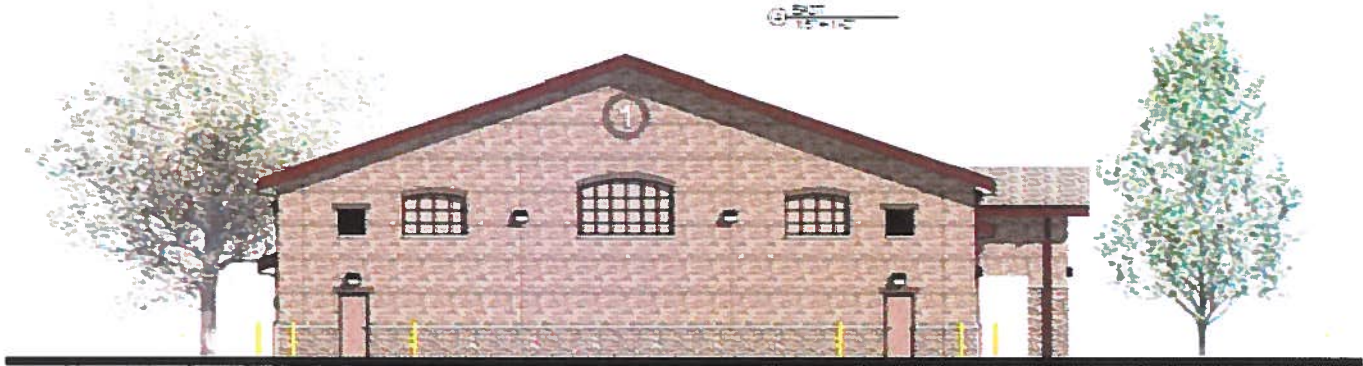
ITEM 3 ADMINISTRATION: 13th Street Bridge Replacement – Council Update and Discussion

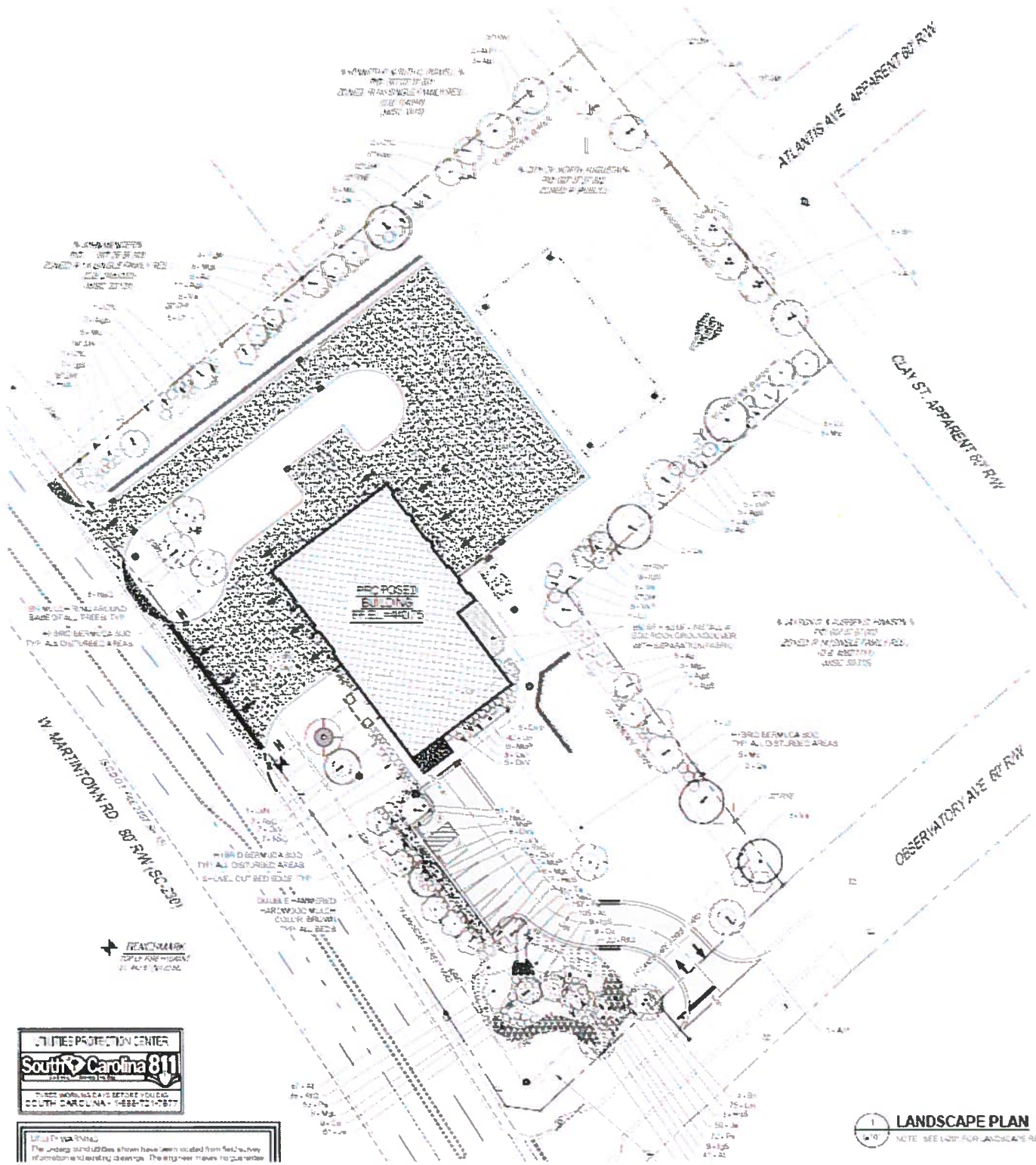
Council will receive updates from Jim Clifford and Rachele Moody on the current design and funding options for the 13th Street Bridge Replacement.

**City of North Augusta
New Public Safety Fire Station #1
Progress Update
August 2020**



- **Design Status** – The Design work is underway. The Programming Phase, Conceptual Schematic and Design Development Phases are complete. Regular project meetings are being held to provide NAPS feedback to Designers. Construction Drawing phase is ongoing.
- **Permitting and Bidding** - This will follow Design Completion.
- **Construction Status** - This will follow Permitting, Bidding and Contract Award.
- **Furniture, Fixtures and Equipment (FF&E) Status** – All of these items have been budgeted and the next stage of planning will start once the Construction Phase is underway.
- **IT/Communications** – This Fire Station will be set up just like Station #3 with IT and communication technology built into the station.
- **Project Budget** – The Project budget is \$3.8M.
- **Schedule** – Preliminary timeframe for project completion is Early Summer 2022 (Difficult to determine schedule risks from COVID-19, these may push the project into the Late Fall 2022).
- **Renderings and Site Plan** – Included with this update.





PLANTING SPECIFICATIONS
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LOT 10 NORTH AUGUSTA
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 200' (20' OF 200'

ATLANTIS AVE APPARENT 80' R/W

CLAY ST. APPARENT 80' R/W

OBSERVATORY AVE 80' R/W

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711 FIRE PROTECTION CENTER
South Carolina 811
 1-800-455-6869
 1-800-455-6869
 SOUTH CAROLINA 811

UTILITY LOCATIONS
 The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee.

LANDSCAPE PLAN
 NOTE: SEE LIST FOR LANDSCAPE REQUIREMENTS

**City of North Augusta
New Public Safety Headquarters
Progress Update
August 2020**



- **Design Status** – The Design work is underway. The Programming Phase, Conceptual Schematic Design Phases are complete. Regular project meetings are being held to provide NAPS feedback to Designers. We are getting some estimates completed to confirm cost range and bringing exterior elevations to City Council for review. Once these items are completed, we will move into the Design Drawing and Construction Drawing phase.
- **Permitting and Bidding** - This will follow Design Completion.
- **Construction Status** - This will follow Permitting, Bidding and Contract Award.
- **Furniture, Fixtures and Equipment (FF&E) Status** – All of these items have been budgeted and the next stage of planning will start once the floor plans and elevations are finalized.
- **IT/Communications** – This will be one of the most complex IT and communications projects the City has ever engaged in. The project team will start detail planning of the IT and communications pieces in the Fall 2020.
- **Project Budget** – Based on the recent Schematic Design Drawings estimate, the project budget range will be discussed in City Council Study Session.
- **Schedule** – Preliminary timeframe for project completion is Early Spring 2023. (Difficult to determine schedule risks from COVID-19, these may push the project into the Late Fall 2023).
- **Renderings and Site Plan** – Included with this update.



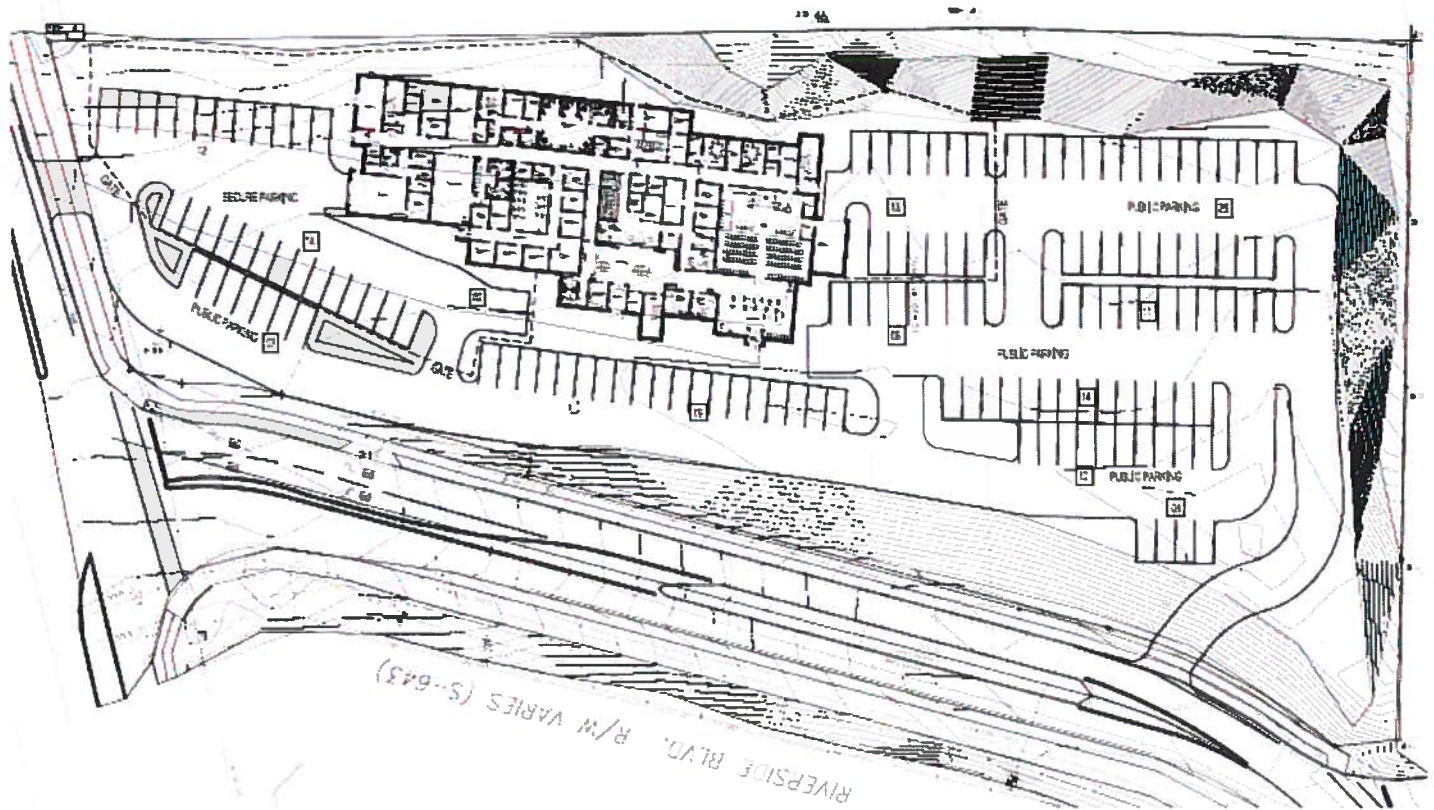


EXHIBIT A

CAPITAL PROJECTS SALES TAX IV PROJECTS

Proposed Project Priority		Funding Allocation Per Referendum	Funding Allocation Changes	Revised Funding Allocation
1	Headquarters Development	10,500,000	600,000	11,100,000
2	Software and Technology Enhancements for a Citizen Information Portal, Record Keeping & Storage, Transaction Processing, Accounting and Financial Reporting	575,000	-	575,000
3	Gateways and Wayfinding Enhancements (Highway 1 @ Martintown Road, East Buena Vista @ Highway 1, Edgefield Road @ Georgia Avenue, I-20 @ Martintown Road)	1,250,000	-	1,250,000
4	Activities Center Improvements (walking track, workout room, chillers and boilers, IT connectivity)	700,000	-	700,000
5	Park Improvements (ballpark, fields and street lighting, Creighton Park playground equipment)	1,500,000	-	1,500,000
6	Community Center Upgrades (roof, lighting, flooring, AV equipment, paving)	150,000	-	150,000
7	Greenway Maintenance and Connectivity	650,000	-	650,000
8	Stormwater Infrastructure Improvements (see listing)	1,500,000	-	1,500,000
9	Downtown Greenway Connector	900,000	-	900,000
10	Street Resurfacing Program (see listing)	1,450,000	-	1,450,000
11	Road Reconstruction Program (see listing)	3,000,000	-	3,000,000
12	Wastewater Infrastructure Improvements (see listing)	3,500,000	-	3,500,000
13	Safety and Security Improvements for the Municipal Building	425,000	-	425,000
14	Finance Department Lobby Improvements for Citizen Transactions	100,000	-	100,000
15	Downtown Pedestrian and Vehicular Traffic and Safety Enhancements (signage, medians, sidewalks)	300,000	-	300,000
16	Georgia Avenue Undergrounding Utilities	700,000	(600,000)	700,000
17	Fire Apparatus	1,000,000	-	400,000
18	Martintown Road at US 1 Interchange Design and Improvements	2,000,000	-	2,000,000
19	New Savannah Bluff Lock & Dam	500,000	-	500,000
		\$ 30,700,000	\$ -	\$ 30,700,000



PARSONS

PI 0013927

**SR 4/US 25BU Bridge Replacement Over Savannah
River at South Carolina State Line**

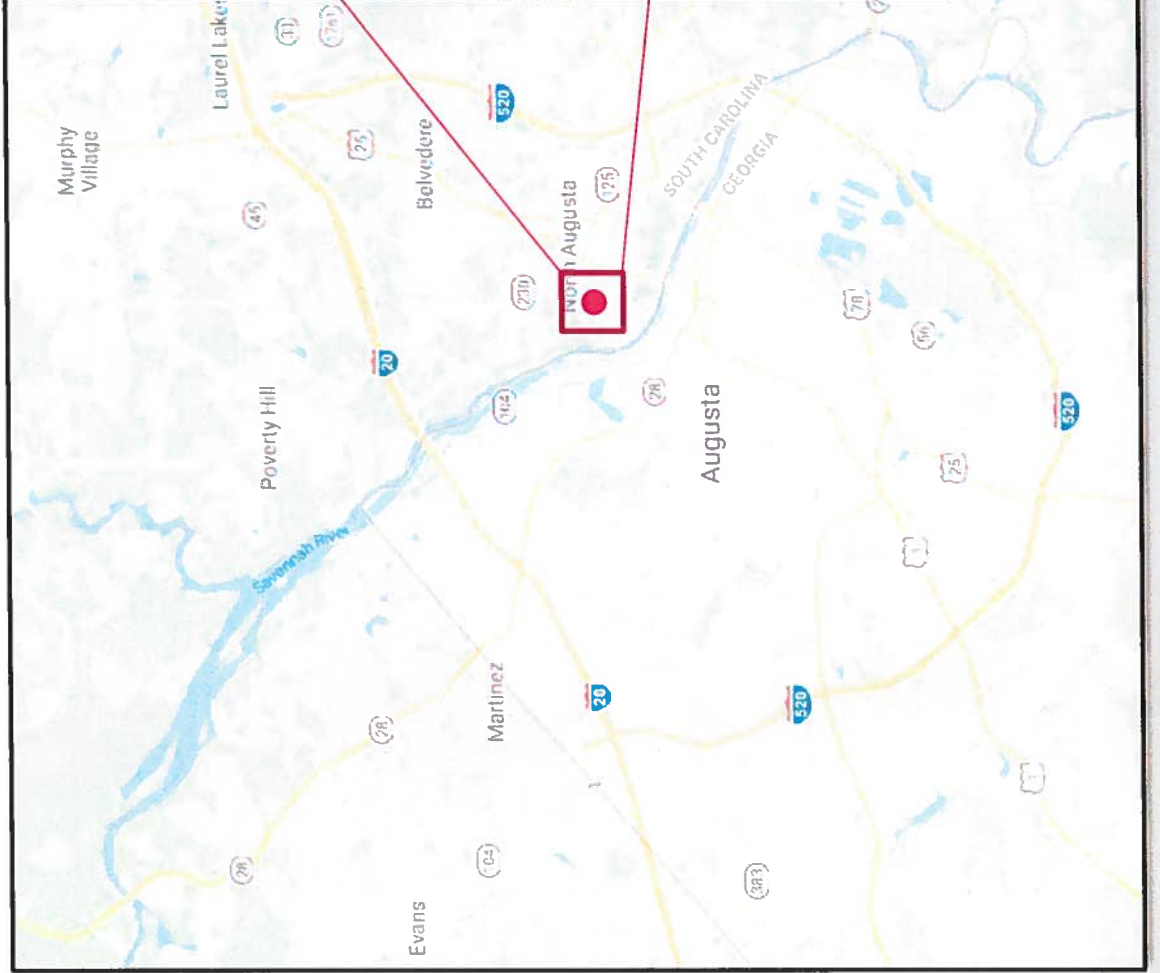
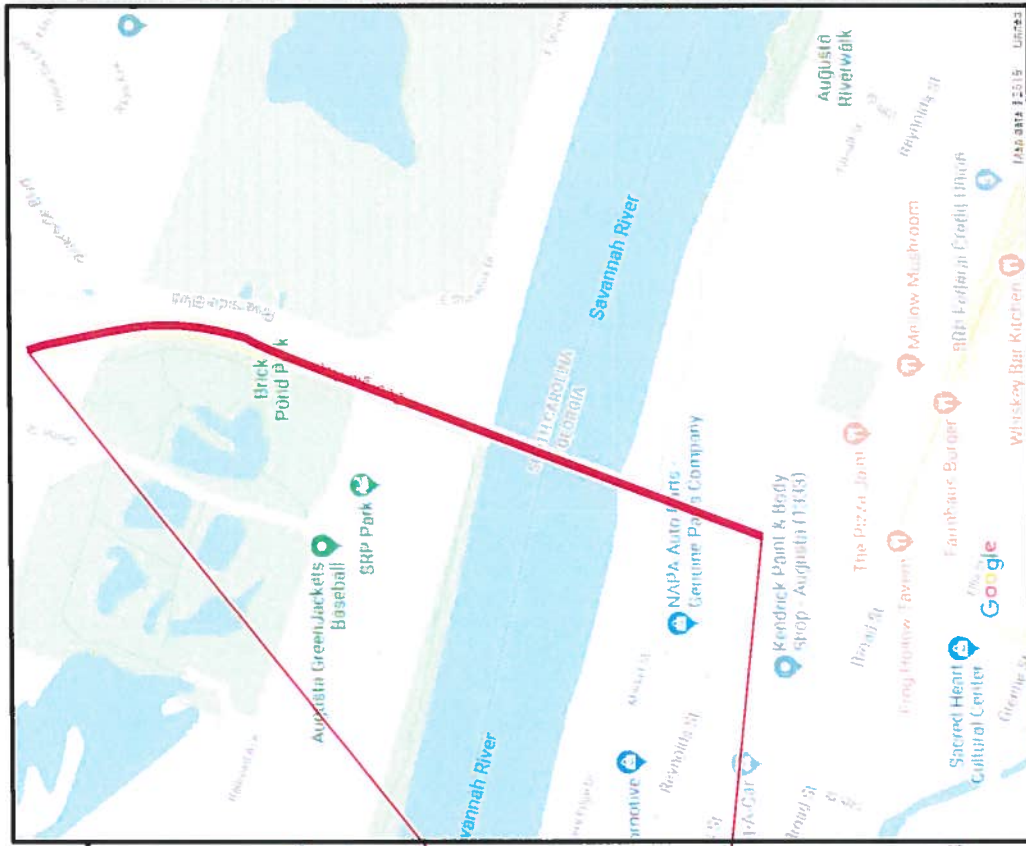
Project Binder

July 6, 2020



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Project Location Map



Design & Structural

- **Project Description**
 - The proposed project involves the replacement and widening of the existing SR 4/US 25BU bridge over the Savannah River. The proposed bridge would be located along the existing alignment to minimize environmental and right-of-way impacts along the project corridor. *The project's total length is about 2,900 feet beginning approximately 500 feet south of the bridge at the signalized SR 4 / Reynolds Avenue intersection and ending roughly 900 feet north of the bridge.*

Design & Structural (Cont'd)

Mainline Design Features:

Feature	Existing	Policy	Functional Classification: <i>Principal Arterial</i>	Proposed
SR 4/US 25BU - 13 th Street (Georgia), Georgia Avenue (South Carolina)				
Typical Section:				
- Number of Lanes	4 lanes (2 lanes in each direction)		Georgia	South Carolina
- Lane Width(s) (-ft)	10-12-ft	11-12 ft	4 lanes (2 lanes in each direction)	
- Median Width (-ft) & Type	0-ft to 12-ft paved flush median	20-ft raised	Min 8-ft to 14-ft median comprised of min 4-ft raised island with Type 7 face, Concrete Integral Median	Inside 11-ft and outside 12-ft Min 8-ft to 12-ft median comprised of min 4-ft raised island with Type 7 face, Concrete Integral Median
- Shoulder Width (-ft) (Outside)	N/A	8-ft GA 10-ft SC*	8-ft (paved) on the southbound	10-ft (paved) on the southbound
- Border Area Width (-ft)		10-16 ft		10-12 ft
- Cross Slope (%)	2%	2%	3%	2.08% ¹
- Outside Shoulder Slope (%)	N/A	6% for Paved & Unpaved	6%	8.33% ² (Unpaved) 4.17% ² (Paved)
- Inside Shoulder Width (-ft)	N/A	N/A	2-ft (paved) Cross slope with mainline	
- Sidewalks (-ft)	SC side- 5-ft on the southbound GA side - Min 5 to 10-ft on both sides	5-ft		Min 5-ft on the northbound of the road
- Auxiliary Lanes (lanes-ft width)	12-ft			11-ft
- Bike Accommodations	N/A	Shared use path		Shared use path 10-ft on the southbound of the road
Posted Speed (mph)	35 mph	10-ft		35 mph
Design Speed (mph)	N/A	45 mph		45 mph
Minimum Horizontal Curve Radius (-ft)	920-ft	711-ft GA 735-ft SC*		600-ft
Maximum Superelevation Rate (%)	4%	4%		2.0% NC
Maximum Grade (%)	10.0% (per 1938 as built) 0.28% (per topo survey)	7% rolling		6.3%
Access Control	By Permit	By Permit		By Permit
Design Vehicle	N/A	WB-40		WB-40 (HL-93 for bridge section)
Vertical Clearance over Railroad Avenue		16'-9" GA* 16'-0" SC*		N/A
Check Vehicle	N/A			N/A
Pavement Type	HMA	HMA		HMA

¹ According to current GDOT design policy if applicable

² According to SCDOT Highway Design Manual Figure 21.3A and 21.3B

³ According to SCDOT Highway Design Manual Section 6.5.1 Item 10 (Posted speed is 5mph less than design speed)

⁴ According to GDOT Bridge Manual Table 2.3.3.1-1 and SCDOT Highway Design Manual Figure 22.3A

Design & Structural (Cont'd)

Bridge ID # 245-0009-0 over Savannah River

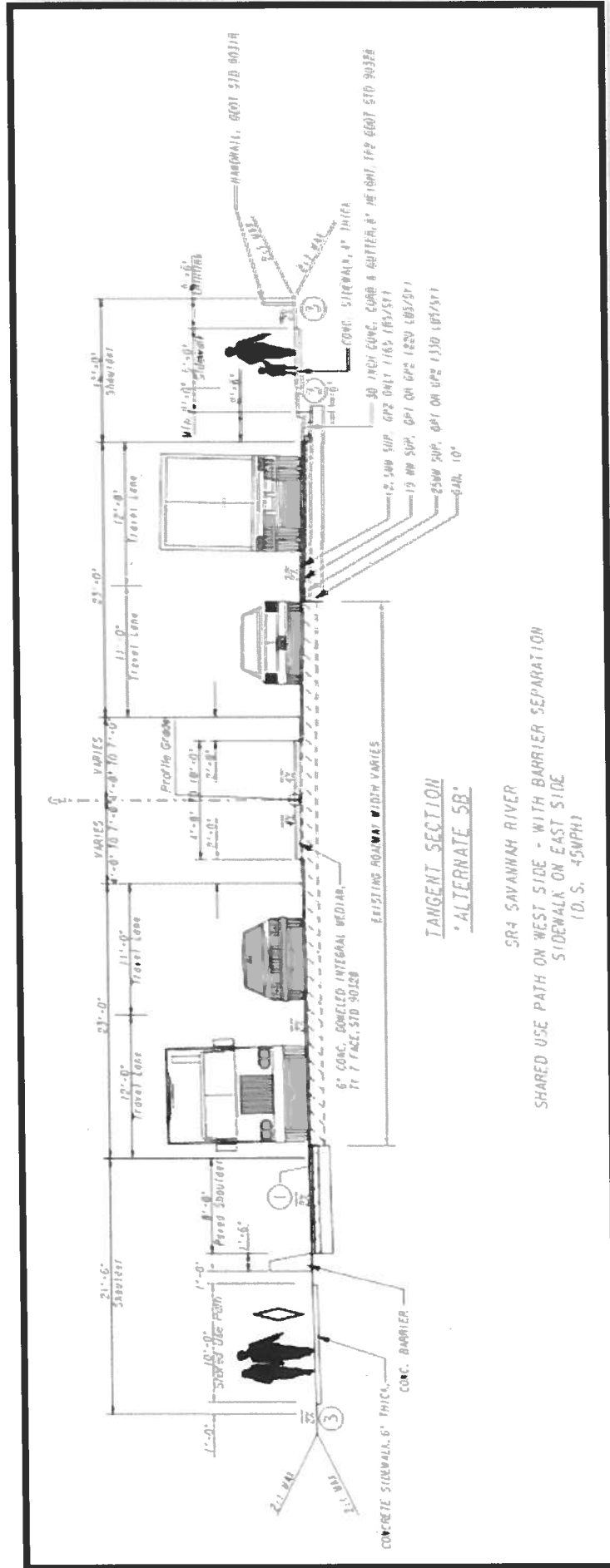
Existing

- Bridge Length: 1510 feet
- Bridge Roadway Width: 54'-0"
- Bridge Deck Width: 62'-10"
- 11 spans of steel beams and 19 spans of Reinforced Concrete Deck Girders.
- The existing bridge consists of four 12-foot travel lanes and a sidewalk on west side of the bridge. No median.

Proposed

- Bridge Length: 1462 feet
- Bridge Roadway Width: 64'-0"
- Deck Width: 86'-7"
- 12 spans with 5 spans over river (BT-78 (FIB-72) girders), 7 spans over land (BT-54 girders).
- The proposed bridge will consist of four travel lanes (11-foot inside and 12-foot outside lanes). 8-foot median, 10-foot shared use path (west side) and 6-foot-6-inch sidewalk (east side)

TYPICAL SECTIONS - ROADWAY

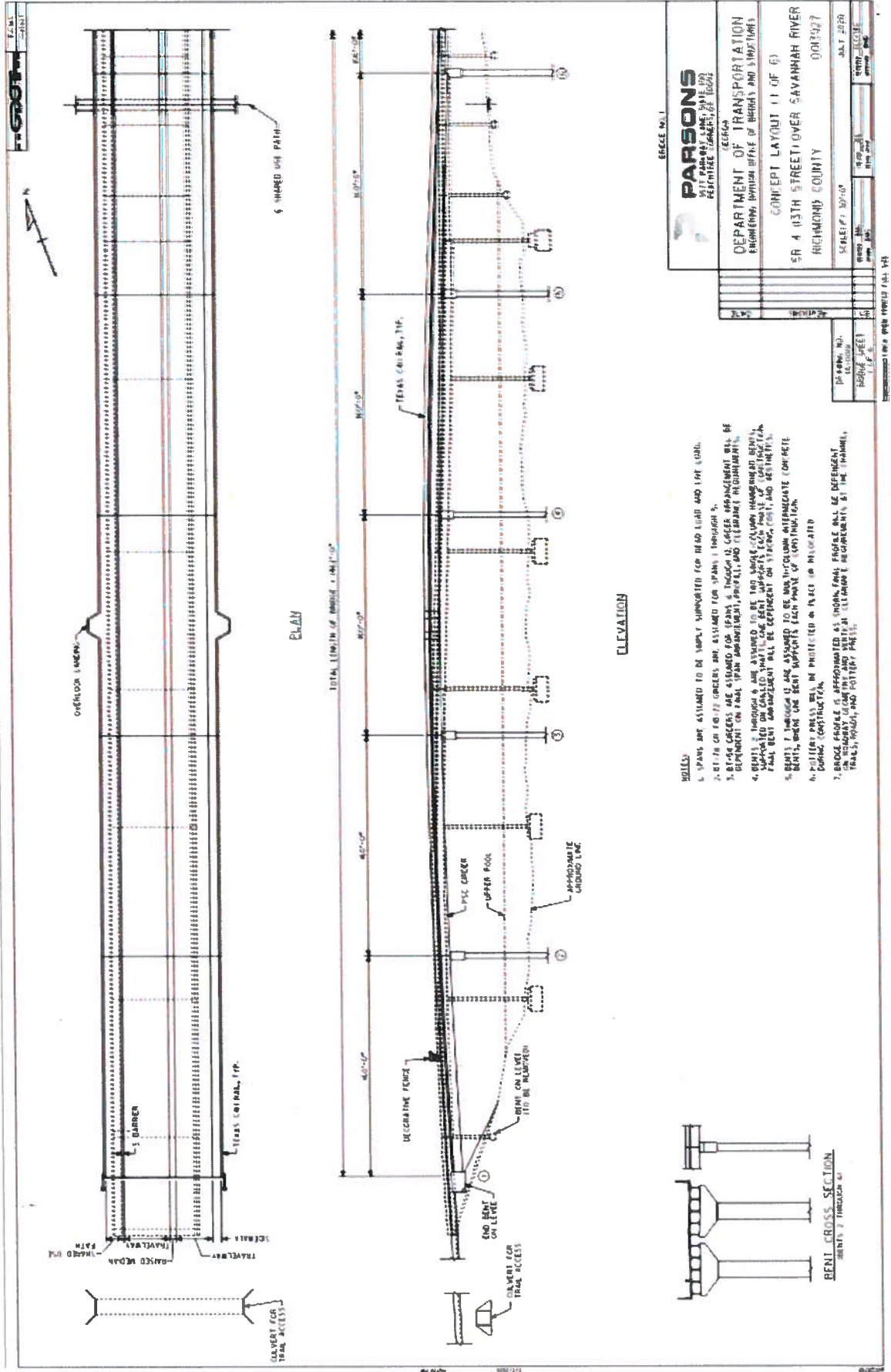


GENERAL NOTES:

- ① SEE GDOT DETAILS T-25 FOR SHOULDER RUMBLE STRIP DETAILS.
- ② SEE GDOT DETAILS P-7 FOR PAVEMENT EDGE TREATMENT DETAILS.
- ③ SODDING

Typical Sections - Bridge Pier Arrangement

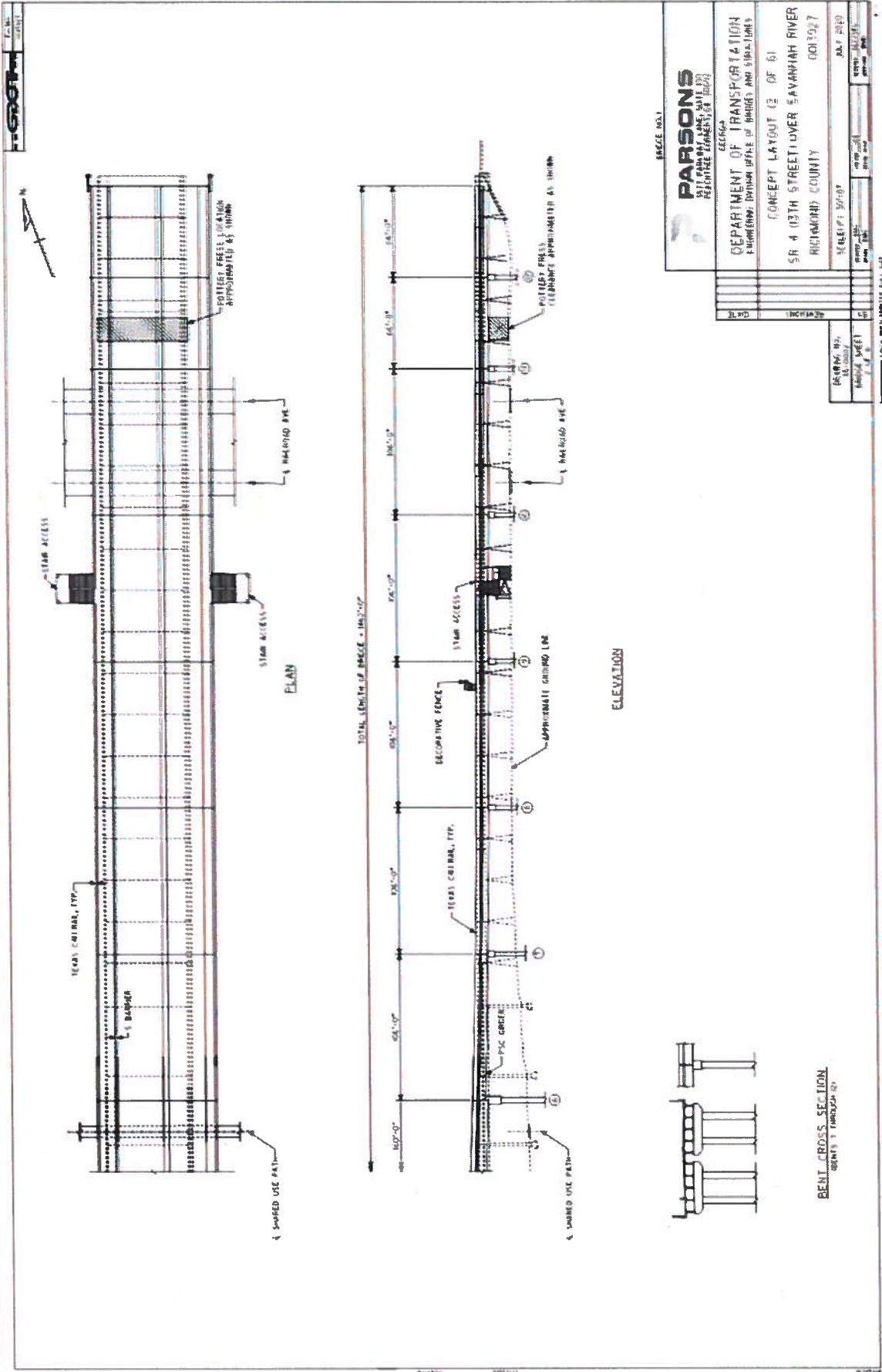
BRIDGE



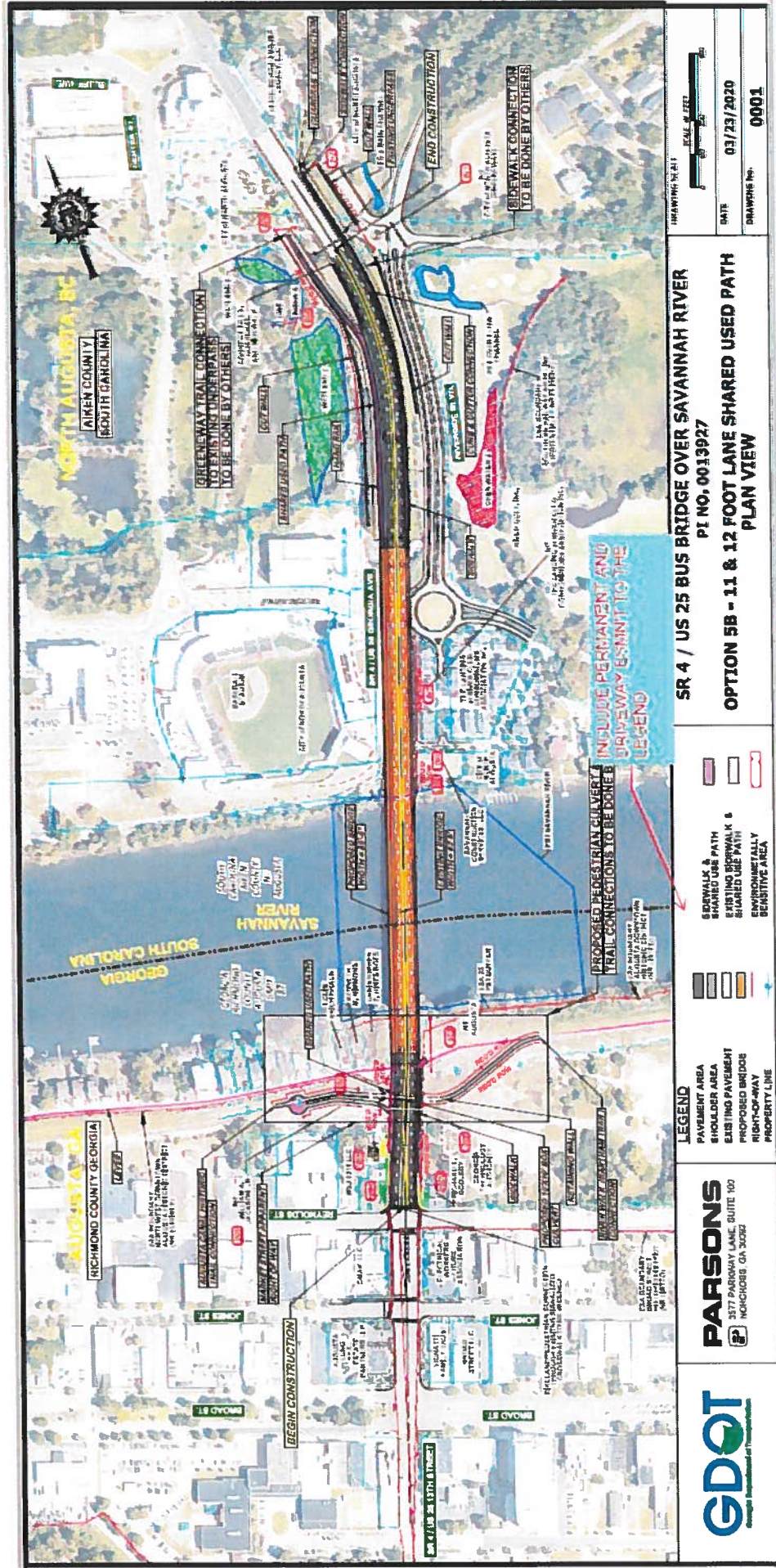
- 1. SPANS ARE ASSUMED TO BE SIMPLY SUPPORTED FOR DEAD LOAD AND LIVE LOAD.
- 2. BENTS ON 10' TO 12' SPANS ARE ASSUMED TO BE SPAN 1 THROUGH 5.
- 3. BRIDGE GIRDERS ARE ASSUMED TO BE SPAN 1 THROUGH 5. GIRDERS SPACING SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL BE APPROVED BY THE ENGINEER.
- 4. BRIDGE DECK SHALL BE CONCRETE ON STEEL GIRDERS. DECK THICKNESS SHALL BE 12" MINIMUM. DECK SHALL BE REINFORCED WITH STEEL BARS. REINFORCEMENT SHALL BE AS SHOWN ON THE DRAWING.
- 5. BRIDGE DECK SHALL BE CONCRETE ON STEEL GIRDERS. DECK THICKNESS SHALL BE 12" MINIMUM. DECK SHALL BE REINFORCED WITH STEEL BARS. REINFORCEMENT SHALL BE AS SHOWN ON THE DRAWING.
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Typical Sections (Cont'd)

BRIDGE



Concept Layout - Alternate 5B

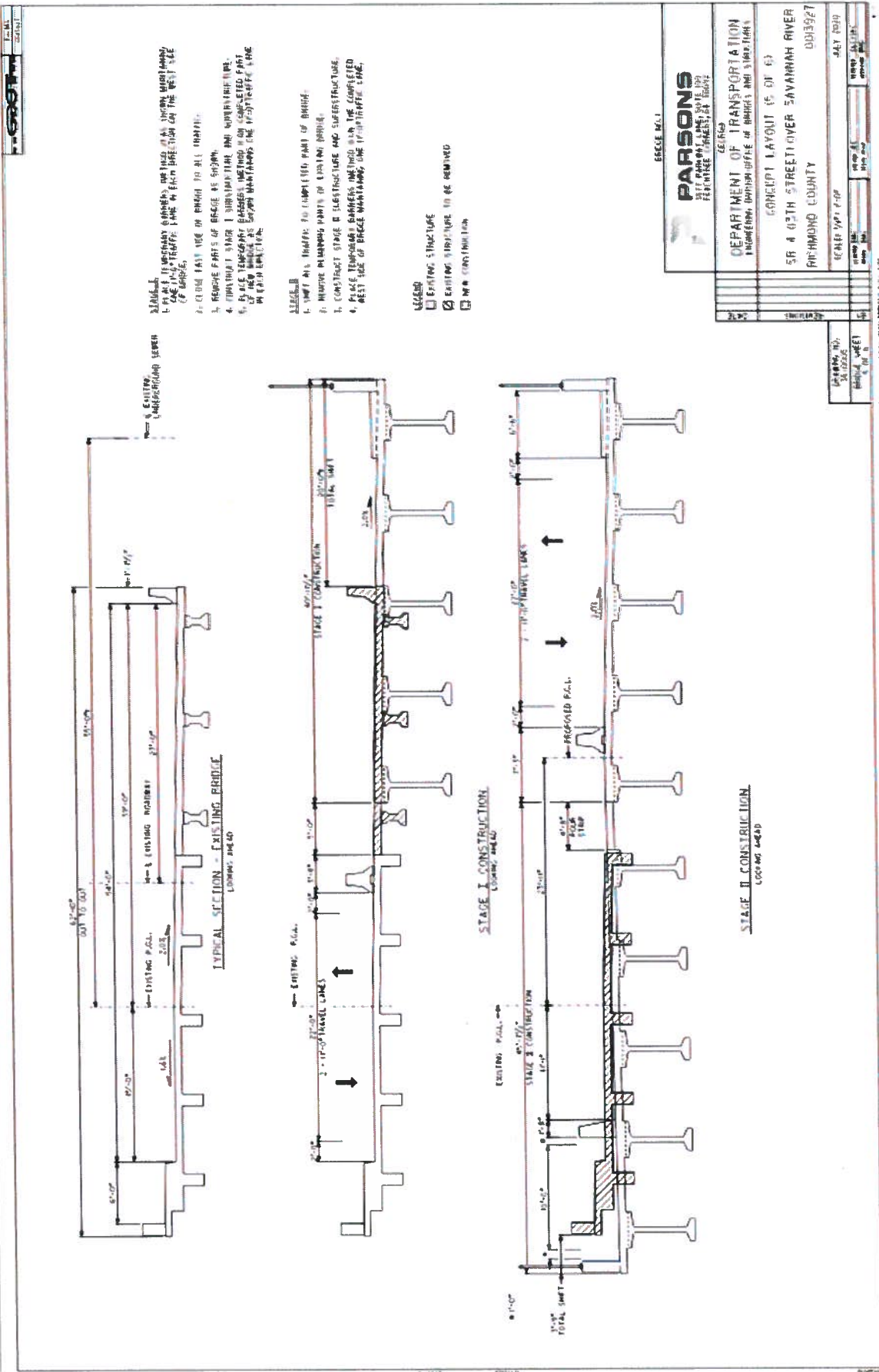


		LEGEND PAVEMENT AREA SHOULDER AREA EXISTING PAVEMENT PROPOSED BRIDGE RIGHT-OF-WAY PROPERTY LINE	DRINKING WATER ENVIRONMENTALLY SENSITIVE AREA	SR 4 / US 25 BUS BRIDGE OVER SAVANNAH RIVER PI NO. 0019927 OPTION 5B - 11 & 12 FOOT LANE SHARED USED PATH PLAN VIEW	DRAWING NO. 0001 DATE 03/23/2020 DRAWING No. 0001
		LEGEND PAVEMENT AREA SHOULDER AREA EXISTING PAVEMENT PROPOSED BRIDGE RIGHT-OF-WAY PROPERTY LINE	DRINKING WATER ENVIRONMENTALLY SENSITIVE AREA	SR 4 / US 25 BUS BRIDGE OVER SAVANNAH RIVER PI NO. 0019927 OPTION 5B - 11 & 12 FOOT LANE SHARED USED PATH PLAN VIEW	DRAWING NO. 0001 DATE 03/23/2020 DRAWING No. 0001

Other Project Considerations

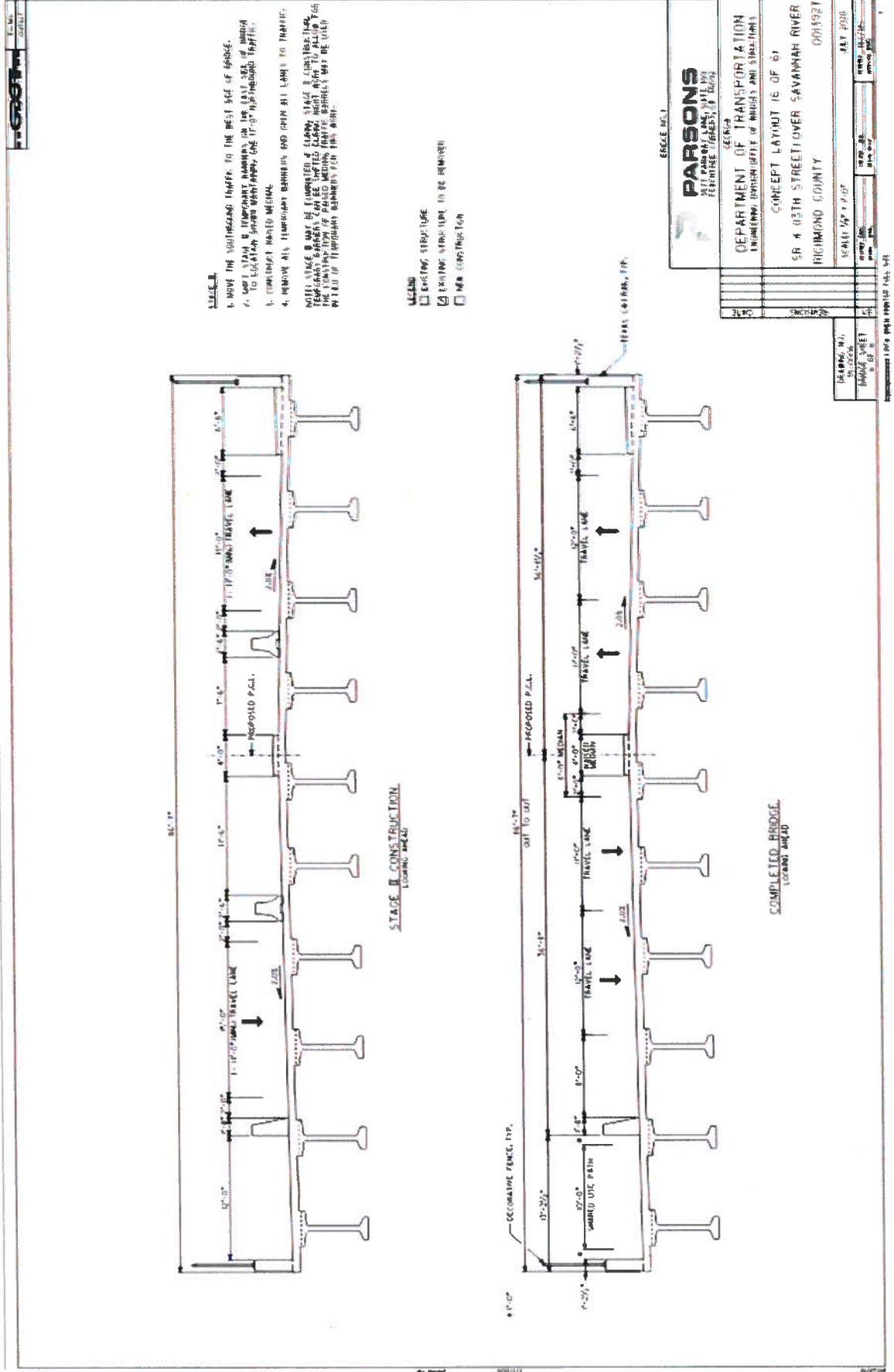
- **Maintenance of Traffic During Construction**
 - Staged Construction along with Lane Reduction to one lane in each direction
 - Offsite Detour
- **Trail Connections**
 - Box Culvert Bypass – Connection for Georgia Trails
 - Trail Connections from Shared Used Path and Sidewalks on the Bridge – SC Side.
- **Aesthetics**
 - Texas C411 rail proposed for parapet along with decorative fence and lighting
 - Viewing platforms
 - Staircase Access to Trails from Bridge
 - Faux/Architectural Arch
 - Haunched Steel Girders with longer spans
 - Under Deck Bridge Lighting

Staged Construction BRIDGE



Staged Construction (CONT'D)

BRIDGE



PARSONS
 1000 G ST. N.W.
 ATLANTA, GA 30339
 TEL: 404.521.8000
 FAX: 404.521.8001
 WWW.PARSONS.COM

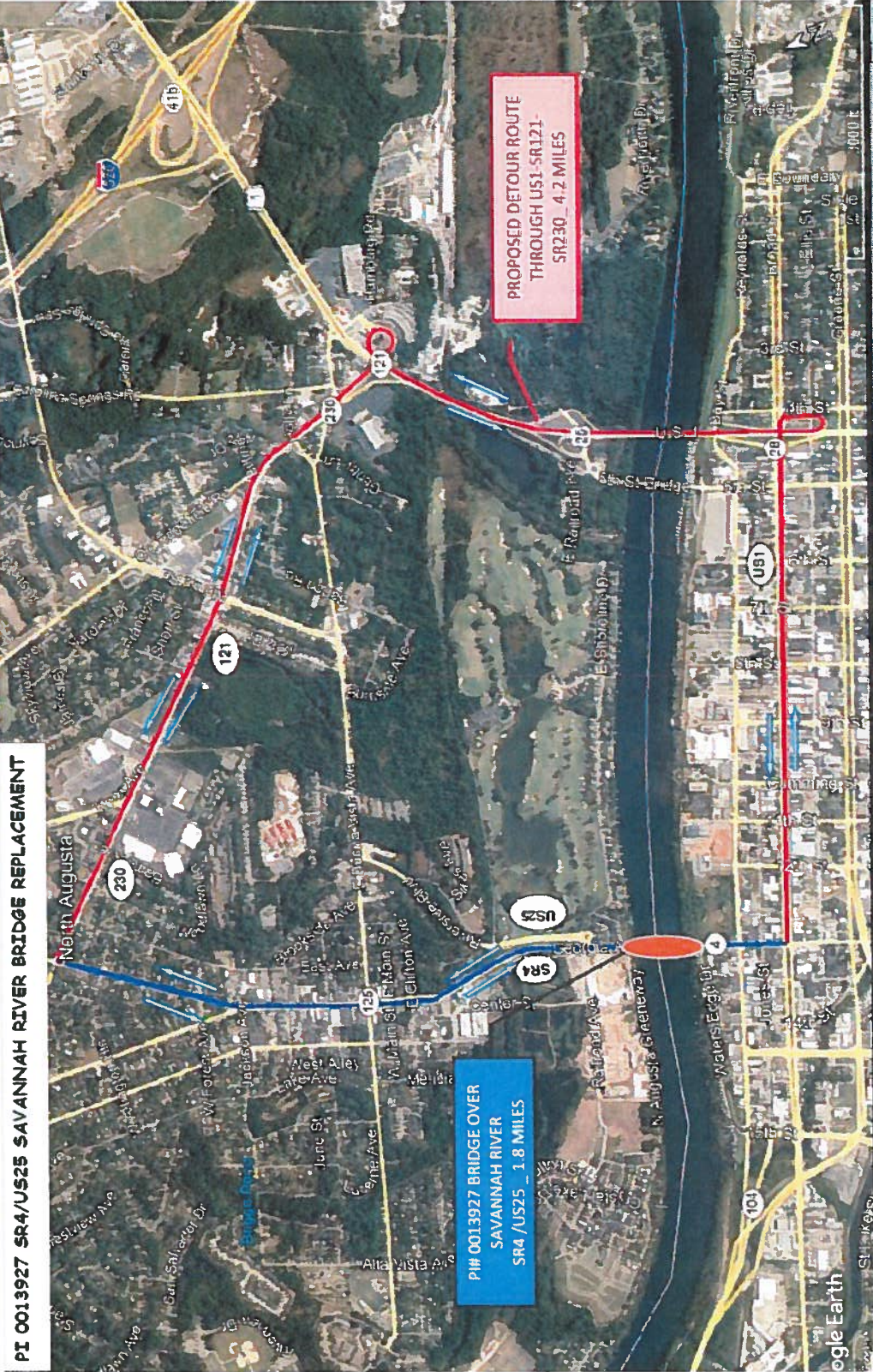
PROJECT: SR 4 WEST STREET OVER SAVANNAH RIVER
 RICHMOND COUNTY
 0004921

SCALE: 1/8" = 1'-0"

DATE: 08/11/08

DESIGNED BY: [Name]
 CHECKED BY: [Name]
 DRAWN BY: [Name]

Offsite Detour



ALTERNATIVE-1
4.2-Mile Additional Detour Length for Motorist Traveling from (US25/US1Broad Street Intersection) Augusta, GA to (SR230) North Augusta, SC

Additional Scope Costs

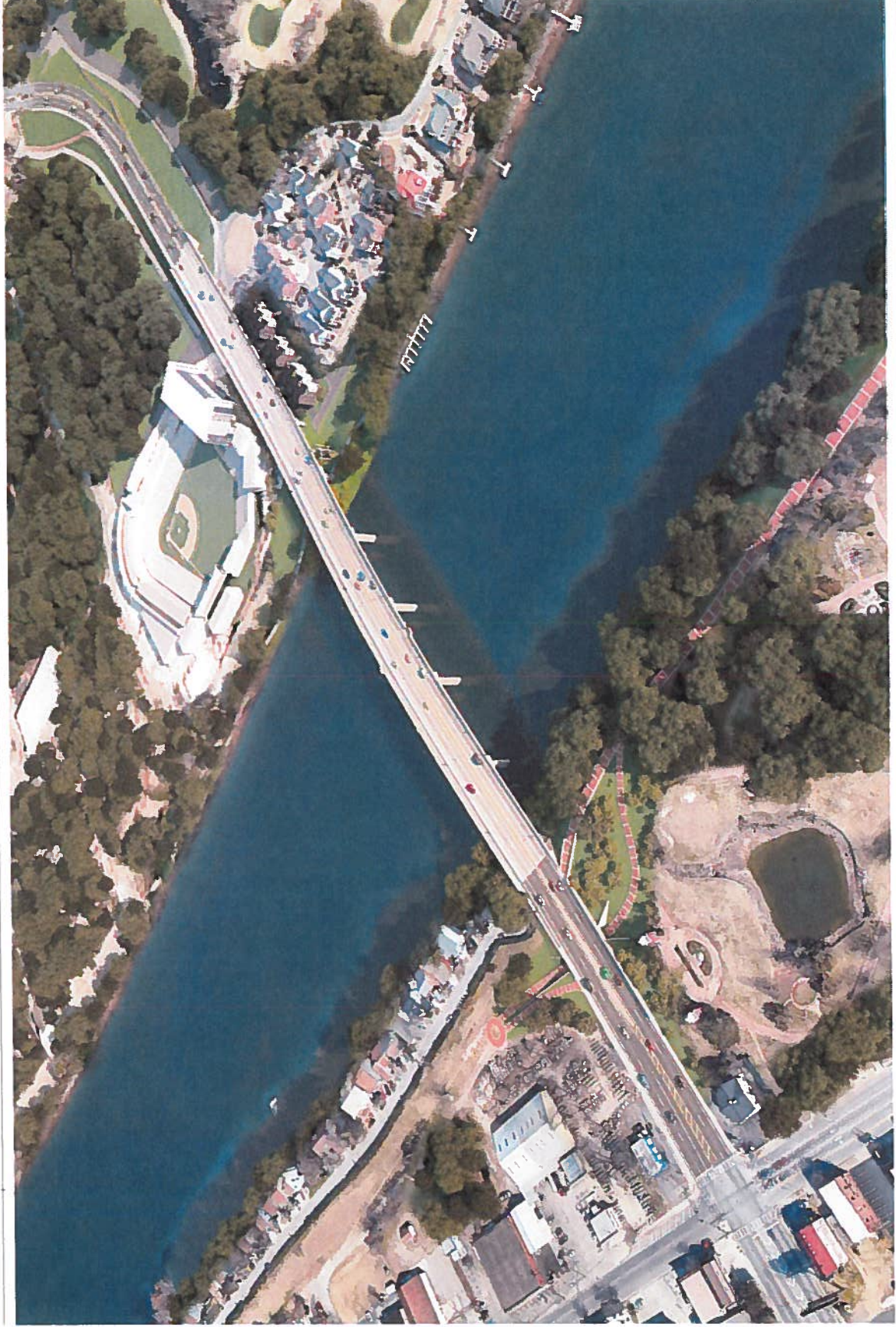
	COST		
	Total	Georgia	South Carolina
Aesthetics			
Faux Arches	\$ 5,000,000	\$ 2,500,000	\$ 2,500,000
Under Deck Lighting	\$ 750,000	\$ 375,000	\$ 375,000
Decorative Lighting on Bridge	\$ 200,000	\$ 100,000	\$ 100,000
Decorative Relief on Bridge Elements	\$ 250,000	\$ 125,000	\$ 125,000
Pedestrian Stairs (2 Towers)	\$ 500,000	\$ 250,000	\$ 250,000
Decorative Fencing	\$ 400,000	\$ 200,000	\$ 200,000
Trail and Pedestrian Connectivity			
Box Culvert Trail Connections (GA)	\$ 1,000,000	\$ 1,000,000	-
Sidewalk & Shared Used Path Connectivity to existing trails (SC)	\$ 1,000,000	-	\$ 1,000,000
Bridge Structure			
Haunched Steel Plate Girders (Increase span lengths)	\$ 2,500,000	\$ 1,250,000	\$ 1,250,000
TOTAL	\$ 11,600,000	\$ 5,800,000	\$ 5,800,000

Assumptions

1. Estimate considers that Aesthetics and Trail & Pedestrian Connectivity items listed above will be separate from PI 0013927
2. Textured and Color Coating Costs were removed from the above table to eliminate the redundancy with colored lighting and based on coordination with GDOT Bridge Office as it shared future maintenance concerns. This will provide an overall cost savings of \$1.15 Million
3. All estimated costs listed are construction costs.
4. Cost for each considers 10% for Engineering & Inspection, 15% for Contingencies, and 25% for Ancillary Items.
5. Ancillary items includes; Grading complete, traffic control items, and temporary construction staging costs.
6. Costs are planning level and will be further refined as engineering design is progressed into preliminary and final.

Project Rendering

Birds Eye-View



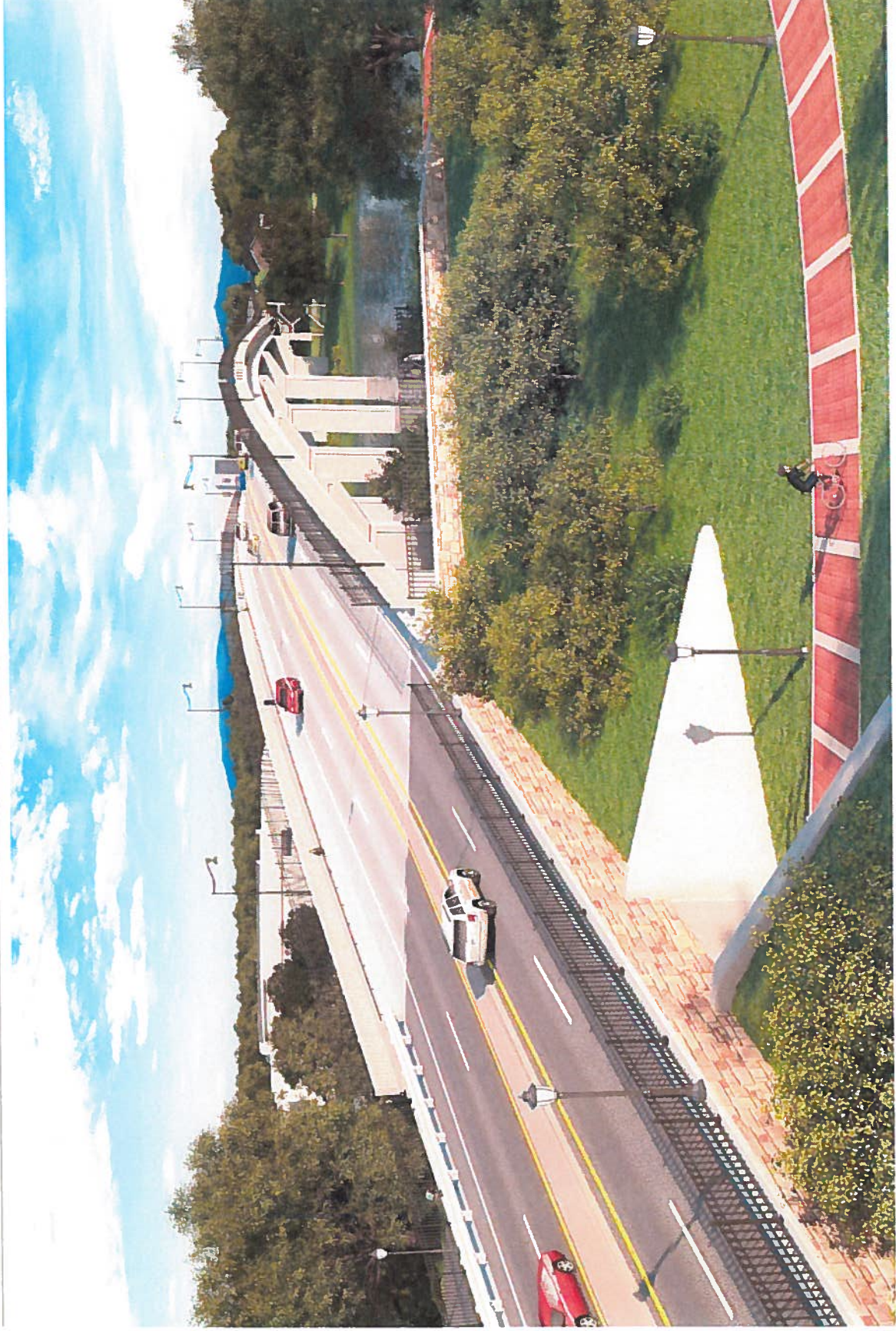
Project Rendering

Ground View with Piers



Project Rendering

Drone View with Trail Connection – Georgia Side



Project Rendering

Culvert Bypass – Trail Connection – Georgia Side



Project Rendering

Ground View with Staircase



Project Rendering

Ground View with Piers with Aesthetic Lighting



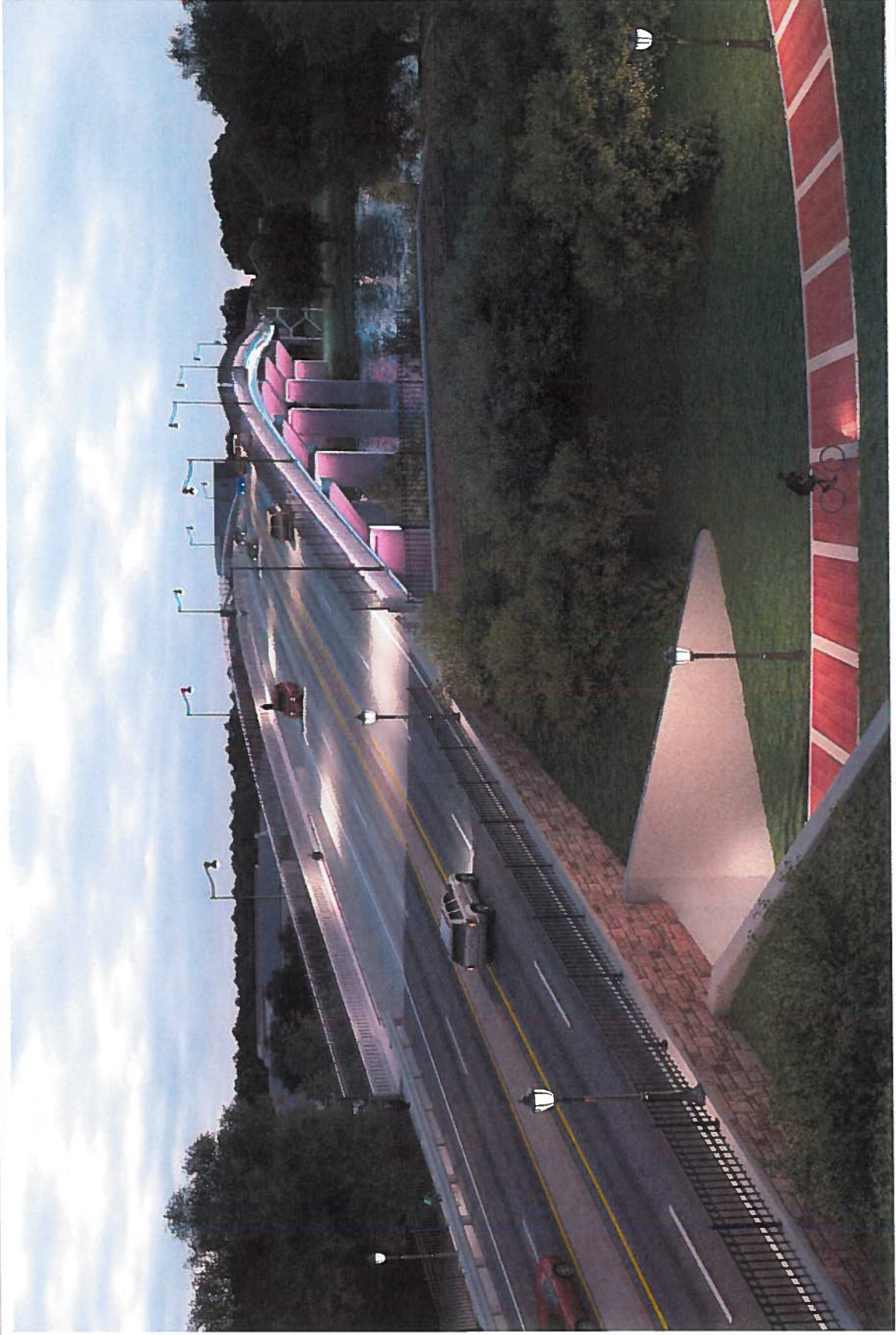
Project Rendering

River View with Aesthetic Lighting



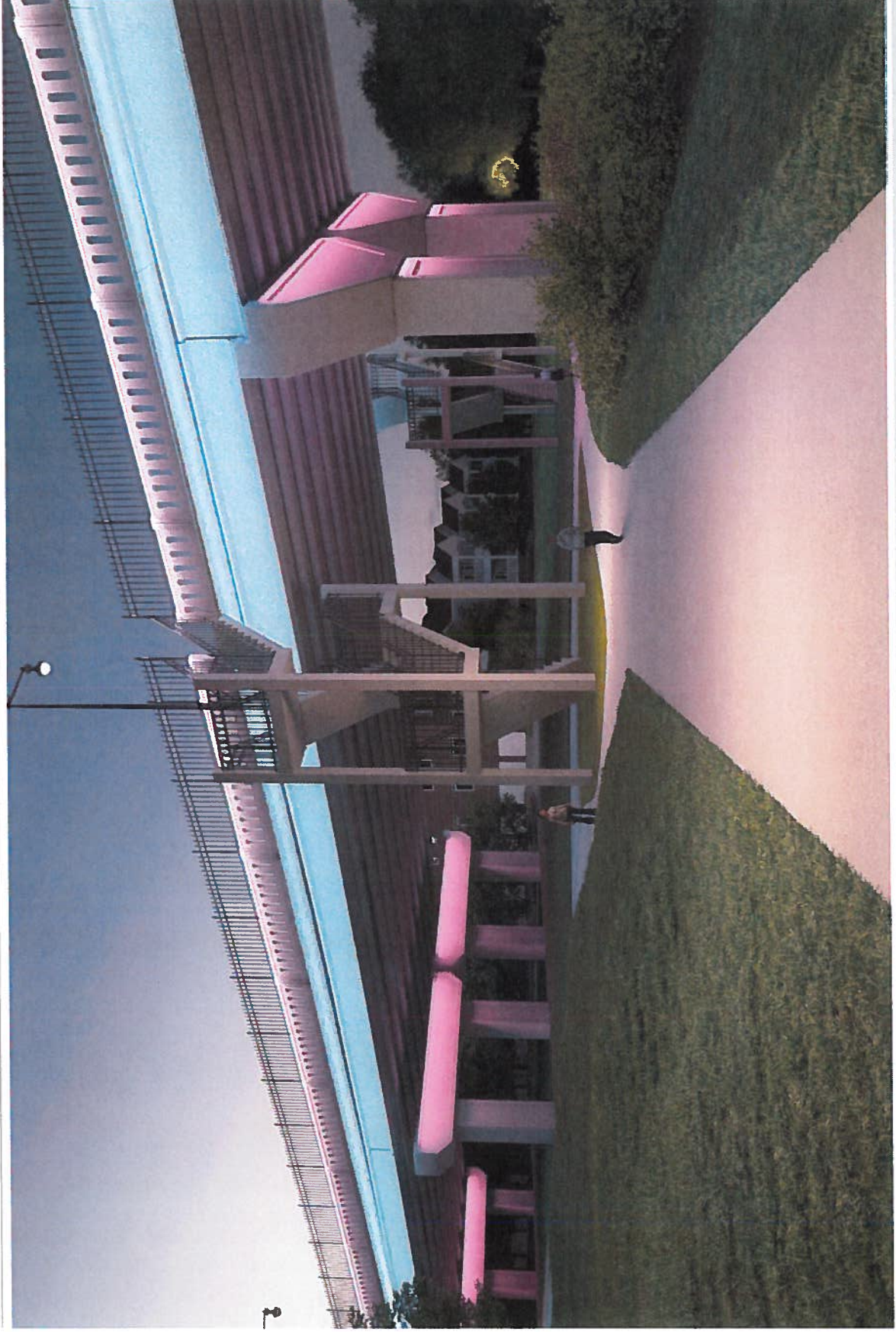
Project Rendering

Drone View with Trail Connection – Georgia Side with Aesthetic Lighting



Project Rendering

Ground View – Staircase with Aesthetic Lighting



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Other Ideas



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Other Ideas

Haunched Steel Plate Girders & Decorative Relief on Bridge Elements



Other Ideas

Faux Arches & Haunched Steel Plate Girders



Other Ideas

Paved Shared Used Path



Other Ideas

Parapet and Fencing – PI 132980-, Walton County

