

DRAFT
PRELIMINARY ENGINEERING REPORT - website volume 2 of 3

Florida Department of Transportation
District Five
State Road 524 Project Development and Environment (PD&E) Study
Limits of Project: From Friday Road to Industry Road
Brevard County, Florida
Financial Management Number: 437983-1
Federal Aid Project No.: D518-034-B
ETDM Number: 14321
Date: June 2025

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration and FDOT.

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Appendix A - INTERSECTION ALTERNATIVE ANALYSIS CONCEPT PLANS

Draft



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 524 AT COX ROAD SIGNALIZED INTERSECTION CONCEPT PLAN	SHEET NO. 1
DATE	DESCRIPTION	DATE	DESCRIPTION					
				ROAD NO. 524	COUNTY BREVARD	FINANCIAL PROJECT ID 437983-1		

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DATE	DESCRIPTION	DATE	DESCRIPTION					
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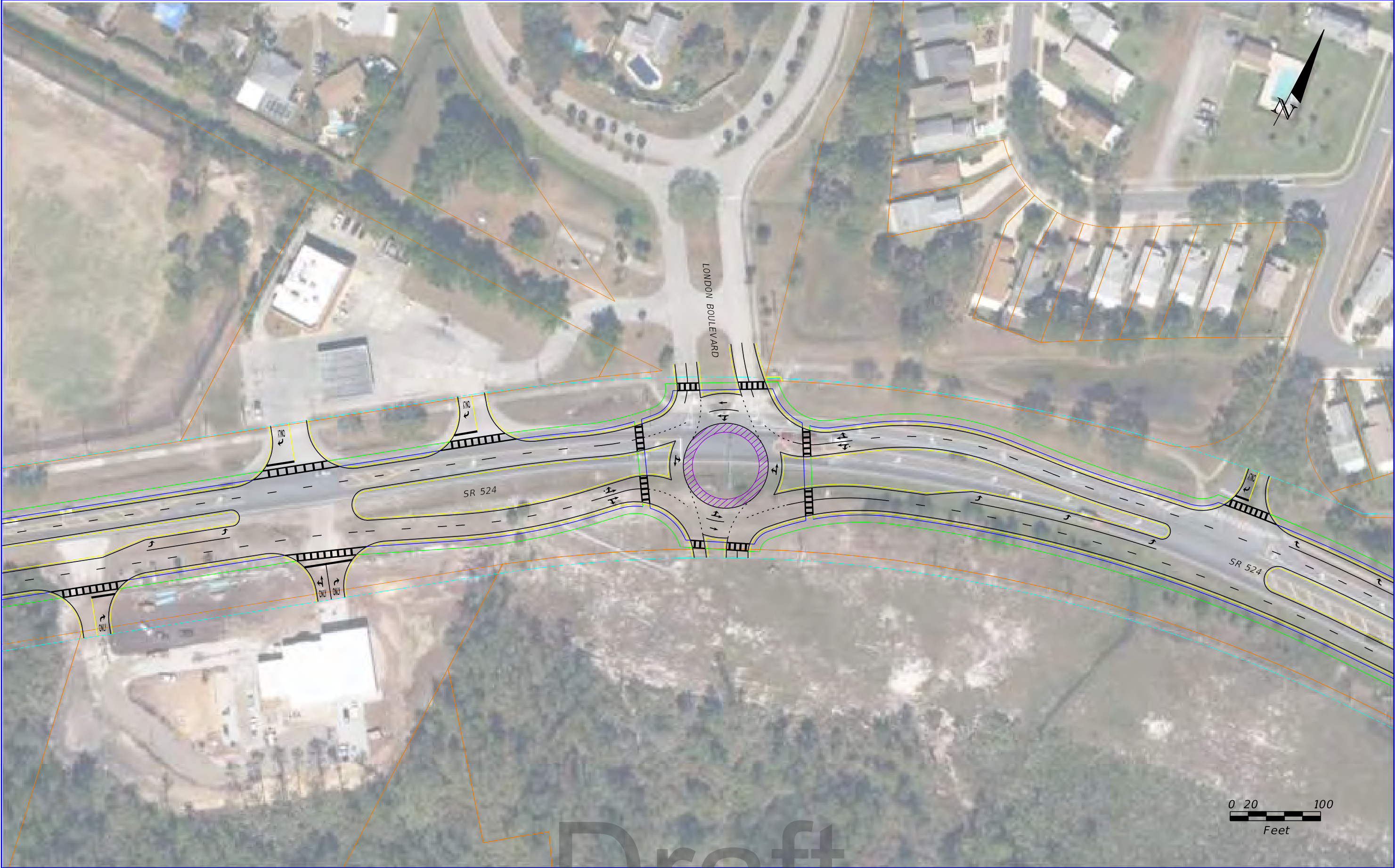


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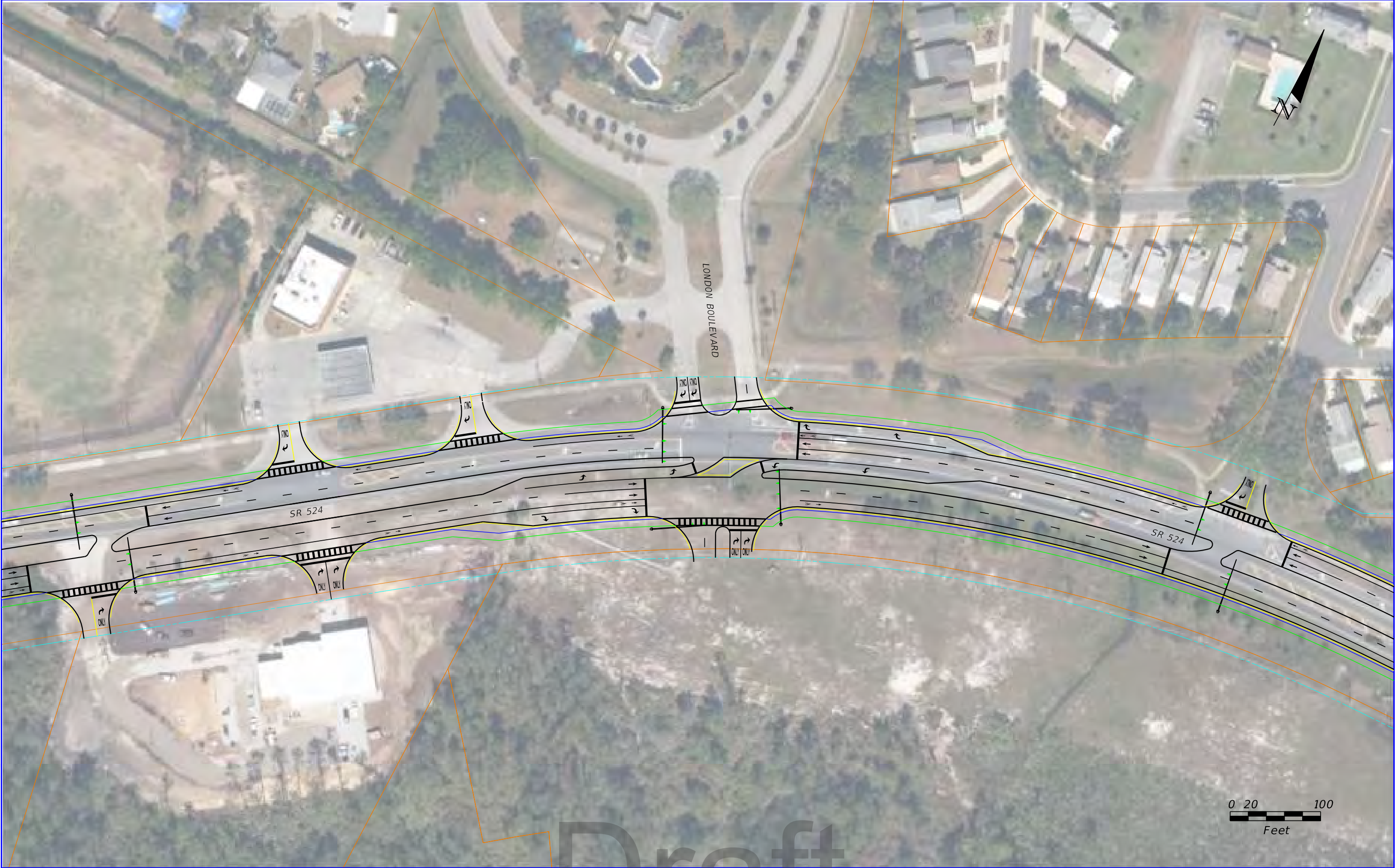


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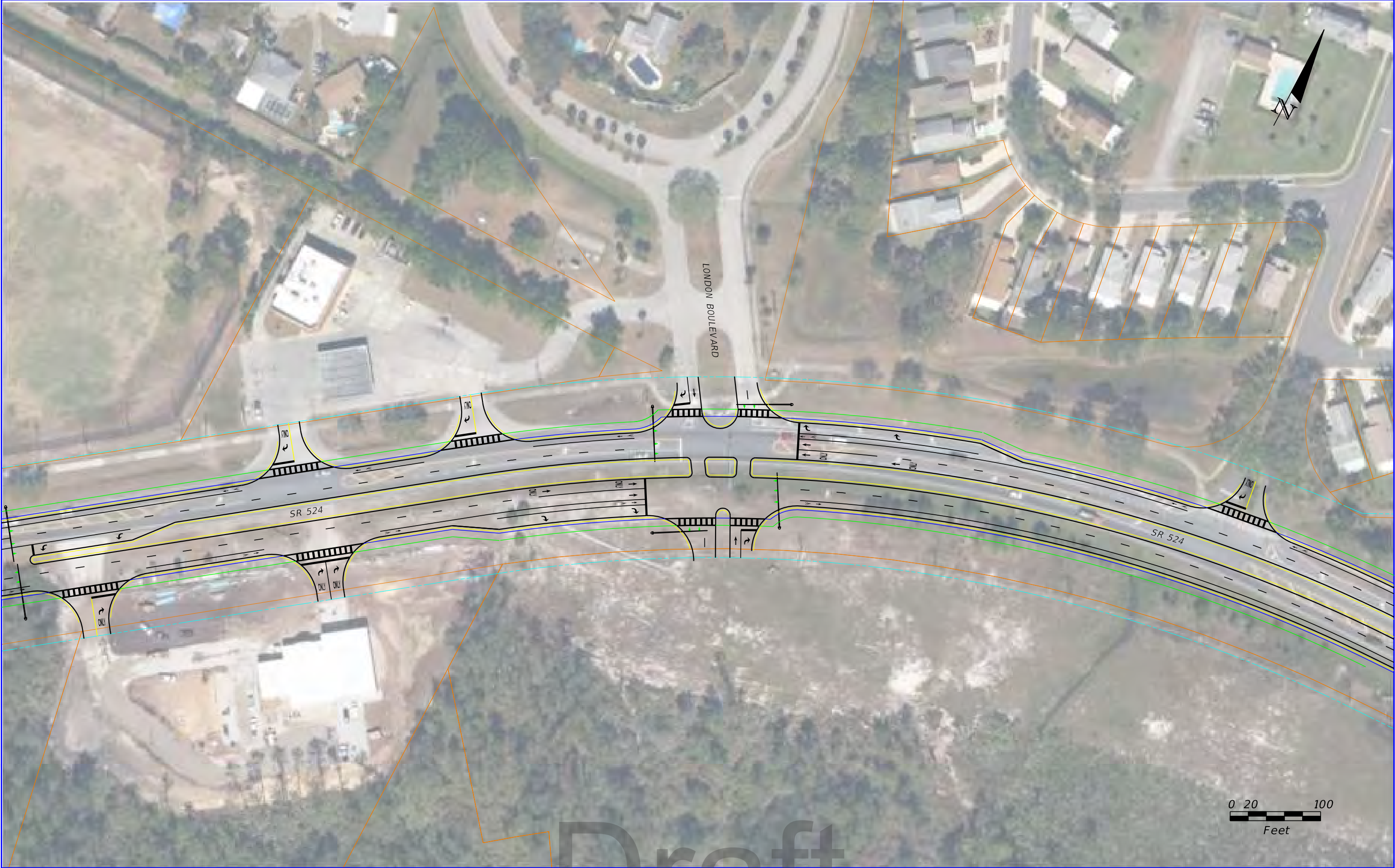


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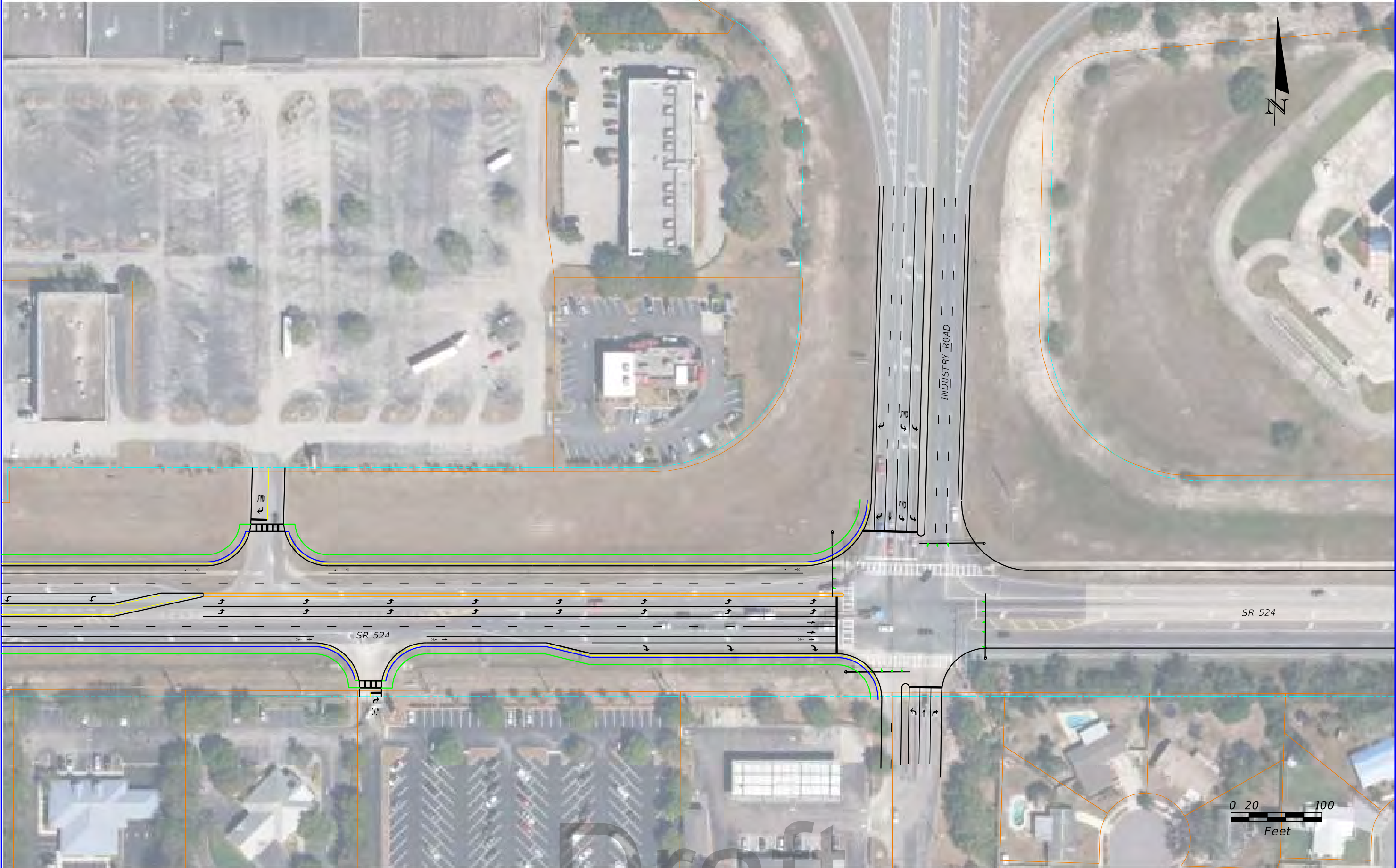


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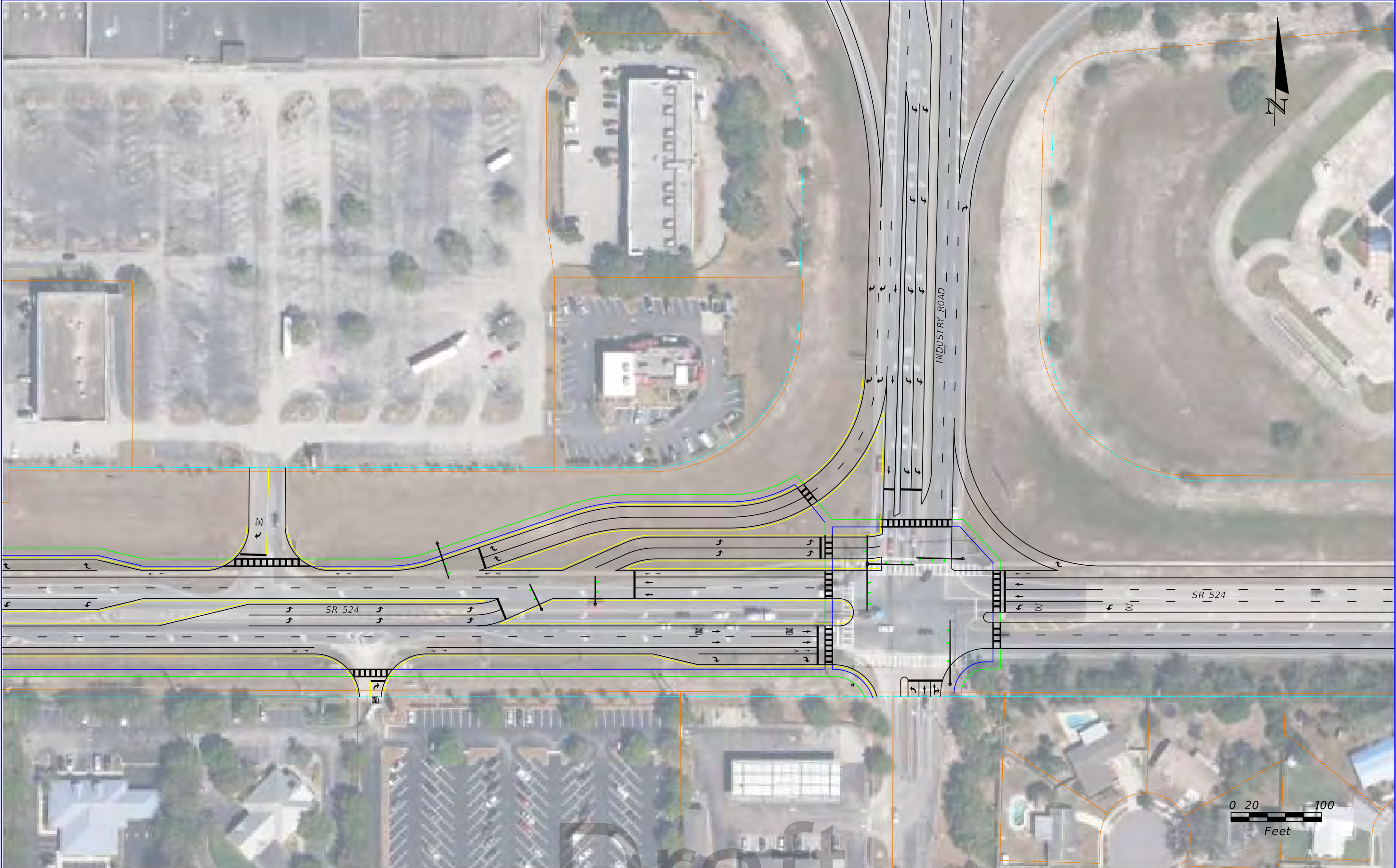
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				ROAD NO. 524	COUNTY BREVARD	FINANCIAL PROJECT ID 437983-1		

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Appendix B - TYPICAL SECTION PACKAGE

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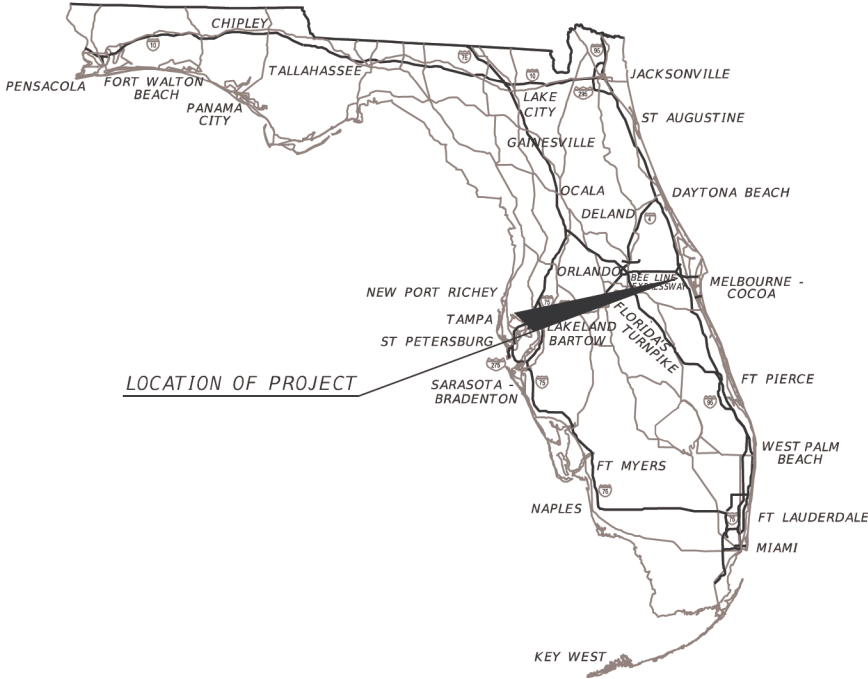
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 437983-1-22-01

(FEDERAL FUNDS)
BREVARD COUNTY (70070)

STATE ROAD NO. 524
FROM SOUTH FRIDAY ROAD TO INDUSTRY ROAD



FDOT DISTRICT DESIGN ENGINEER

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Jeffrey Cicarella
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12/22/2023 | 8:22 AM EST

CONCURRING WITH:
TYPICAL SECTION ELEMENTS
TARGET SPEED
DESIGN & POSTED SPEEDS

FDOT DISTRICT TRAFFIC OPERATIONS
ENGINEER

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Jim Wood
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CONCURRING WITH:
TARGET SPEED
DESIGN & POSTED SPEEDS

FDOT DISTRICT INTERMODAL SYSTEMS
DEVELOPMENT MANAGER

DocuSigned by:
Kellie Smith
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01/04/2024 | 6:30 AM EST

CONCURRING WITH:
CONTEXT CLASSIFICATION
TARGET SPEED

FHWA TRANSPORTATION ENGINEER

N/A

CONCURRING WITH:
TYPICAL SECTION ELEMENTS

PROJECT LOCATION URL: <https://tinyurl.com/f7eztnwr>

PROJECT DESCRIPTION: RECONSTRUCTION/WIDENING

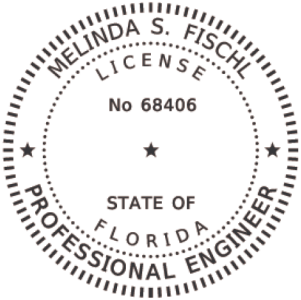
PROJECT LIMITS: BEGIN MP 1.510 - END MP 4.651
(SR 524)

EXCEPTIONS: NONE

BRIDGE LIMITS: BEGIN MP 1.130 - END MP 1.166
(I-95)

RAILROAD CROSSING: NONE

APPROVED BY:



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SIGNED AND SEALED BY

Melinda S Fischl 2024.01.31
16:17:47-05'00'

ON THE DATE ADJACENT TO THE SEAL

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ON ANY ELECTRONIC COPIES.

CONSOR ENGINEERS, LLC
1511 EAST SR 434, SUITE 1001
WINTER SPRINGS, FLORIDA 32708
MELINDA S. FISCHL, P.E. NO. 68406

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

SHEET NO	SHEET DESCRIPTION
01	COVER SHEET
02	PROJECT LAYOUT
03	TYPICAL SECTION NO. 01
04	TYPICAL SECTION NO. 02
05	TYPICAL SECTION NO. 03
06	TYPICAL SECTION NO. 04
07	TYPICAL SECTION NO. 05
08	TYPICAL SECTION NO. 06
09	TYPICAL SECTION NO. 07
10	TYPICAL SECTION NO. 08
11	TYPICAL SECTION NO. 09
12	TYPICAL SECTION NO. 10
13	TYPICAL SECTION NO. 11
14	TYPICAL SECTION NO. 12

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1 : NATURAL	() C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
() C3R : SUBURBAN RES.	() C6 : URBAN CORE
() N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION

() INTERSTATE	() MAJOR COLLECTOR
() FREEWAY/EXPWY.	() MINOR COLLECTOR
() PRINCIPAL ARTERIAL	() LOCAL
() MINOR ARTERIAL	

HIGHWAY SYSTEM

() NATIONAL HIGHWAY SYSTEM
() STRATEGIC INTERMODAL SYSTEM
() STATE HIGHWAY SYSTEM
() OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

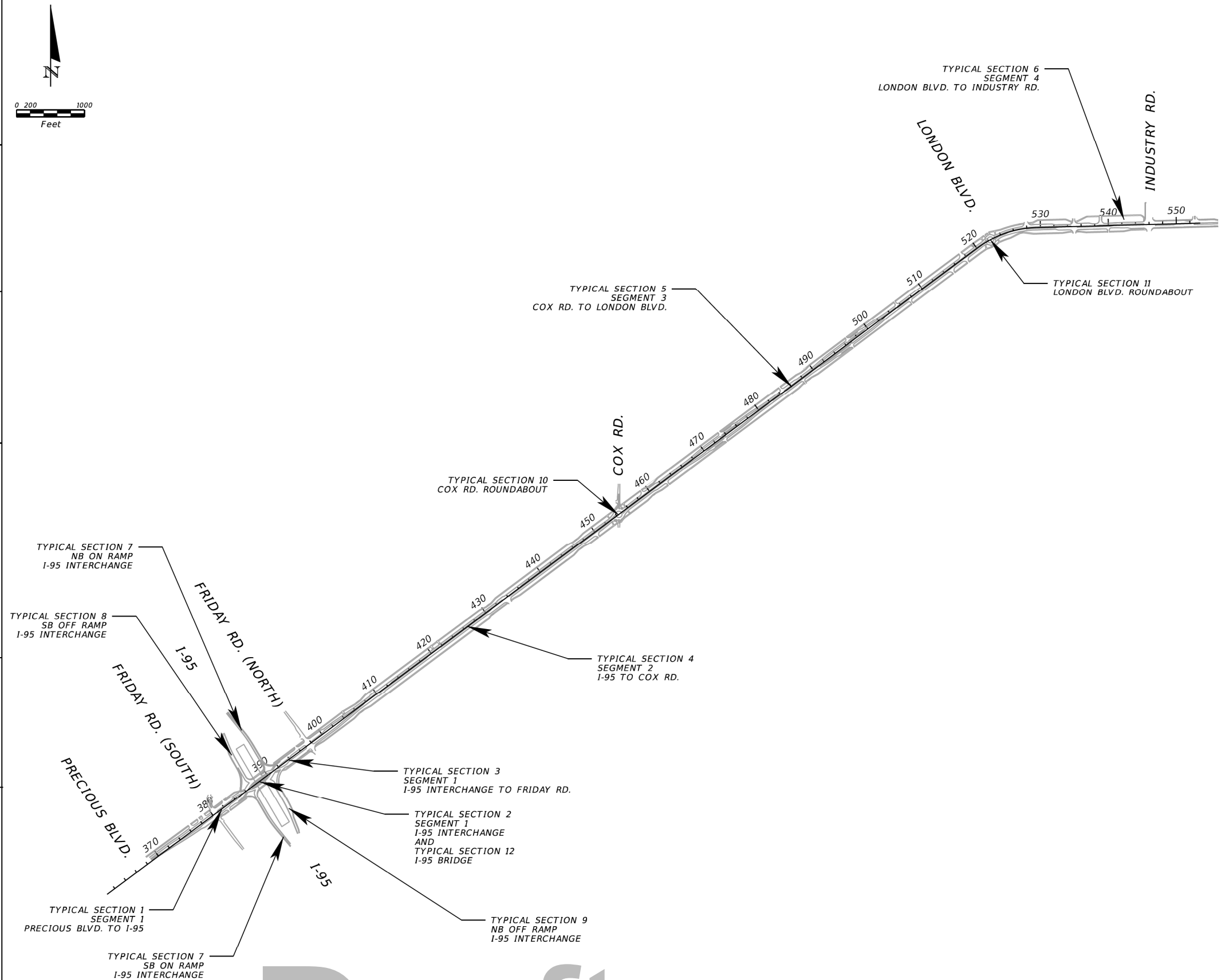
- () 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

CRITERIA

() NEW CONSTRUCTION / RECONSTRUCTION
() RESURFACING (LA FACILITIES)
() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS
RELATED TO TYPICAL SECTION:

PROJECT LAYOUT



Draft

<i>FINANCIAL PROJECT ID</i>	<i>SHEET NO.</i>
437983 1 22 01	02

PROJECT CONTROLS	
CONTEXT CLASSIFICATION	
() C1 : NATURAL	(X) C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
() C3R : SUBURBAN RES.	() C6 : URBAN CORE
() N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION	
() INTERSTATE	() MAJOR COLLECTOR
() FREEWAY/EXPWY.	() MINOR COLLECTOR
() PRINCIPAL ARTERIAL	() LOCAL
(X) MINOR ARTERIAL	

HIGHWAY SYSTEM	
() NATIONAL HIGHWAY SYSTEM	
() STRATEGIC INTERMODAL SYSTEM	
(X) STATE HIGHWAY SYSTEM	
() OFF-STATE HIGHWAY SYSTEM	

ACCESS CLASSIFICATION	
() 1 - FREEWAY	
() 2 - RESTRICTIVE w/Service Roads	
() 3 - RESTRICTIVE w/660 ft. Connection Spacing	
() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing	
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing	
() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing	
() 7 - BOTH MEDIAN TYPES	

CRITERIA	
(X) NEW CONSTRUCTION / RECONSTRUCTION	
() RESURFACING (LA FACILITIES)	
() RRR (ARTERIALS & COLLECTORS)	

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 01

TYPICAL SECTION 01

SR 524

SEGMENT 1

FRIDAY ROAD (SOUTH) TO I-95 INTERCHANGE

MP 1.510 TO 1.605

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 18,000

ESTIMATED OPENING YEAR = 2025 AADT = 23,000

ESTIMATED DESIGN YEAR = 2045 AADT = 39,000

K = 9.51% D = 56.00% T = 18.20% (24 HOUR)

DESIGN HOUR T = 9.10%

POSTED SPEED = 45 MPH

DESIGN SPEED = 45 MPH

TARGET SPEED = 45 MPH

FINANCIAL PROJECT ID	SHEET NO.
437983 1 22 01	03

PROJECT CONTROLS

CONTEXT CLASSIFICATION

()

C1 : NATURAL

(X)

C3C : SUBURBAN COMM.

()

C2 : RURAL

()

C4 : URBAN GENERAL

()

C2T : RURAL TOWN

()

C5 : URBAN CENTER

()

C3R : SUBURBAN RES.

()

C6 : URBAN CORE

()

N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

()

INTERSTATE

()

MAJOR COLLECTOR

()

FREEWAY/EXPWY.

()

MINOR COLLECTOR

()

PRINCIPAL ARTERIAL

()

LOCAL

(X)

MINOR ARTERIAL

HIGHWAY SYSTEM

()

NATIONAL HIGHWAY SYSTEM

()

STRATEGIC INTERMODAL SYSTEM

(X)

STATE HIGHWAY SYSTEM

()

OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

()

1 - FREEWAY

()

2 - RESTRICTIVE w/Service Roads

()

3 - RESTRICTIVE w/660 ft. Connection Spacing

()

4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

(X)

5 - RESTRICTIVE w/440 ft. Connection Spacing

()

6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

()

7 - BOTH MEDIAN TYPES

CRITERIA

(X)

NEW CONSTRUCTION / RECONSTRUCTION

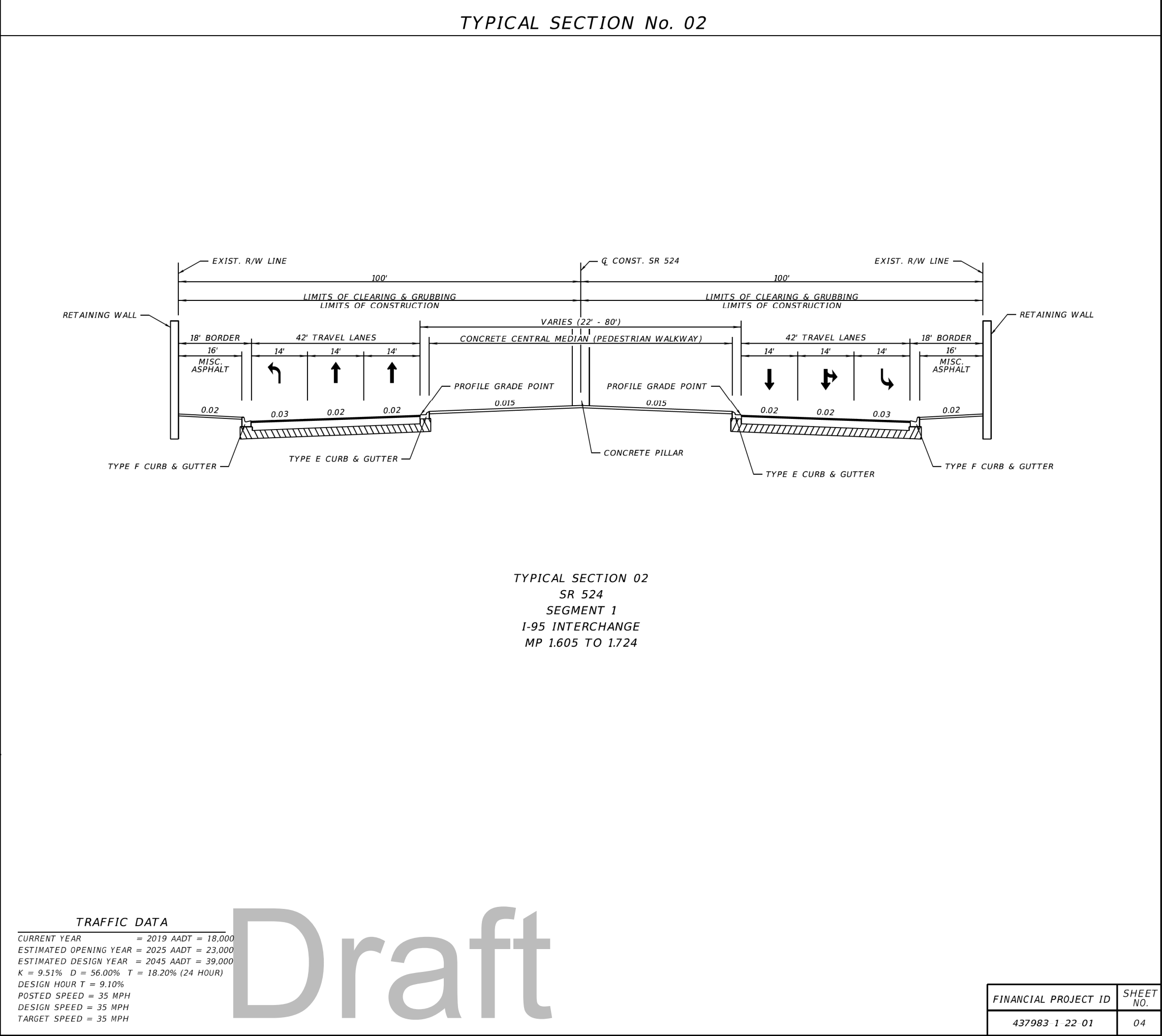
()

RESURFACING (LA FACILITIES)

()

RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



FINANCIAL PROJECT ID	SHEET NO.
437983 1 22 01	04

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PROJECT CONTROLS

CONTEXT CLASSIFICATION

FUNCTIONAL CLASSIFICATION

HIGHWAY SYSTEM

ACCESS CLASSIFICATION

CRITERIA

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

C1 : NATURAL

C2 : RURAL

C2T : RURAL TOWN

C3R : SUBURBAN RES.

N/A : L.A. FACILITY

(X) C3C : SUBURBAN COMM.

C4 : URBAN GENERAL

C5 : URBAN CENTER

C6 : URBAN CORE

INTERSTATE

FREEWAY/EXPWY.

PRINCIPAL ARTERIAL

MINOR ARTERIAL

MAJOR COLLECTOR

MINOR COLLECTOR

LOCAL

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

1 - FREEWAY

2 - RESTRICTIVE w/Service Roads

3 - RESTRICTIVE w/660 ft. Connection Spacing

4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

5 - RESTRICTIVE w/440 ft. Connection Spacing

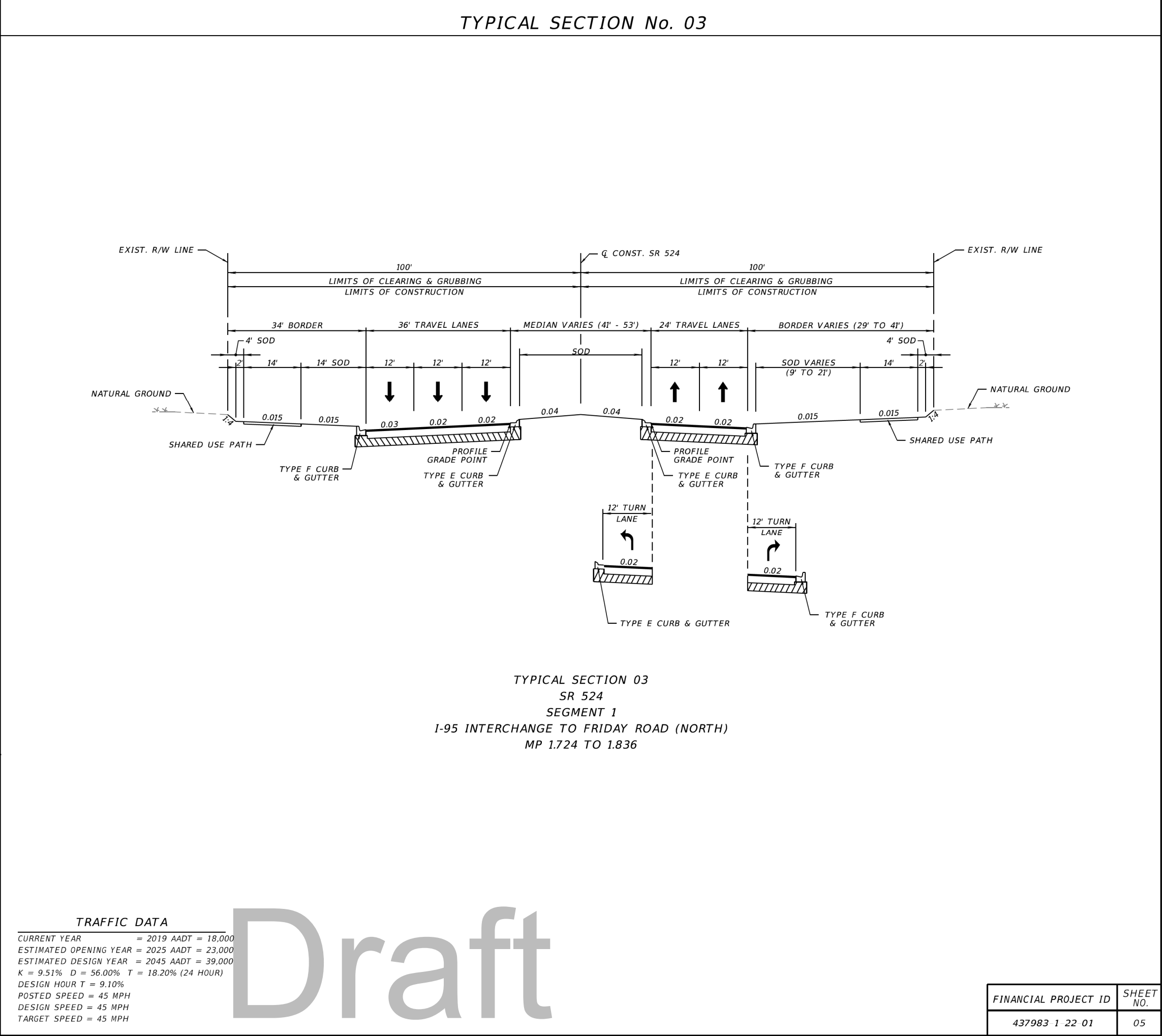
6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

7 - BOTH MEDIAN TYPES

NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

RRR (ARTERIALS & COLLECTORS)



PROJECT CONTROLS
CONTEXT CLASSIFICATION () C1 : NATURAL () C2 : RURAL () C2T : RURAL TOWN (X) C3R : SUBURBAN RES. () N/A : L.A. FACILITY () C3C : SUBURBAN COMM. () C4 : URBAN GENERAL () C5 : URBAN CENTER () C6 : URBAN CORE

TYPICAL SECTION No. 04

The diagram illustrates a cross-section of a highway segment. It features two 23-foot travel lanes in each direction, separated by a 22-foot median. The total width of the travel lanes and median is 100 feet. On either side of the travel lanes are shoulders, each 14 feet wide, with a 2-foot strip of open ditch (SOD) on the outer edge. The total width of the shoulders and SOD is 100 feet. The diagram also shows the limits of clearing and grubbing, the limits of construction, and the existing right-of-way line. The profile grade points are indicated, showing a 0.02% grade for the travel lanes and a 0.04% grade for the median. The diagram includes labels for various components such as the shared use path, type F curb and gutter, and type E curb and gutter. The depth of the curb and gutter is specified as 1 foot minimum. The diagram also shows the existing right-of-way line and the limits of clearing and grubbing.

TYPICAL SECTION 04

SR 524

SEGMENT 2

FRIDAY ROAD (NORTH) TO COX ROAD

MP 1.836 - MP 2.916

TRAFFIC DATA

CURRENT YEAR

= 2019 AADT = 10,000

ESTIMATED OPENING YEAR

= 2025 AADT = 13,000

ESTIMATED DESIGN YEAR

= 2045 AADT = 22,000

K = 9.51%

D = 56.00%

T = 18.20% (24 HOUR)

DESIGN HOUR T

= 9.10%

POSTED SPEED

= 45 MPH

DESIGN SPEED

= 45 MPH

TARGET SPEED

= 45 MPH

FINANCIAL PROJECT ID

437983 1 22 01

SHEET NO.

06

PROJECT CONTROLS	
CONTEXT CLASSIFICATION	
() C1 : NATURAL	() C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
(X) C3R : SUBURBAN RES.	() C6 : URBAN CORE
() N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION	
() INTERSTATE	() MAJOR COLLECTOR
() FREEWAY/EXPWY.	() MINOR COLLECTOR
() PRINCIPAL ARTERIAL	() LOCAL
(X) MINOR ARTERIAL	

HIGHWAY SYSTEM	
() NATIONAL HIGHWAY SYSTEM	
() STRATEGIC INTERMODAL SYSTEM	
(X) STATE HIGHWAY SYSTEM	
() OFF-STATE HIGHWAY SYSTEM	

ACCESS CLASSIFICATION	
() 1 - FREEWAY	
() 2 - RESTRICTIVE w/Service Roads	
() 3 - RESTRICTIVE w/660 ft. Connection Spacing	
() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing	
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing	
() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing	
() 7 - BOTH MEDIAN TYPES	

CRITERIA	
(X) NEW CONSTRUCTION / RECONSTRUCTION	
() RESURFACING (LA FACILITIES)	
() RRR (ARTERIALS & COLLECTORS)	

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 05

TYPICAL SECTION 05

SR 524

SEGMENT 3

COX ROAD TO LONDON BOULEVARD

MP 2.916 - MP 4.194

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 16,000

ESTIMATED OPENING YEAR = 2025 AADT = 19,000

ESTIMATED DESIGN YEAR = 2045 AADT = 30,000

K = 9.51% D = 56.00% T = 18.20% (24 HOUR)

DESIGN HOUR T = 9.10%

POSTED SPEED = 45 MPH

DESIGN SPEED = 45 MPH

TARGET SPEED = 45 MPH

FINANCIAL PROJECT ID	SHEET NO.
437983 1 22 01	07

PROJECT CONTROLS
CONTEXT CLASSIFICATION () C1 : NATURAL (X) C3C : SUBURBAN COMM. () C2 : RURAL () C4 : URBAN GENERAL () C2T : RURAL TOWN () C5 : URBAN CENTER (X) C3R : SUBURBAN RES. () C6 : URBAN CORE () N/A : L.A. FACILITY
FUNCTIONAL CLASSIFICATION () INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR () PRINCIPAL ARTERIAL () LOCAL (X) MINOR ARTERIAL
HIGHWAY SYSTEM () NATIONAL HIGHWAY SYSTEM () STRATEGIC INTERMODAL SYSTEM (X) STATE HIGHWAY SYSTEM () OFF-STATE HIGHWAY SYSTEM
ACCESS CLASSIFICATION () 1 - FREEWAY () 2 - RESTRICTIVE w/Service Roads () 3 - RESTRICTIVE w/660 ft. Connection Spacing () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing () 7 - BOTH MEDIAN TYPES
CRITERIA (X) NEW CONSTRUCTION / RECONSTRUCTION () RESURFACING (LA FACILITIES) () RRR (ARTERIALS & COLLECTORS)
POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 06

TYPICAL SECTION 06

SR 524

SEGMENT 4

LONDON BOULEVARD TO INDUSTRY ROAD MP 4.194 - MP 4.651

(CONTEXT CLASSIFICATION C3R MP 4.194 - MP 4.305)

(CONTEXT CLASSIFICATION C3C MP 4.305 - MP 4.651)

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 17,000

ESTIMATED OPENING YEAR = 2025 AADT = 21,000

ESTIMATED DESIGN YEAR = 2045 AADT = 32,000

K = 9.51% D = 56.00% T = 18.20% (24 HOUR)

DESIGN HOUR T = 9.10%

POSTED SPEED = 45 MPH

DESIGN SPEED = 45 MPH

TARGET SPEED = 45 MPH

FINANCIAL PROJECT ID

437983 1 22 01

SHEET NO.

08

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

FUNCTIONAL CLASSIFICATION

HIGHWAY SYSTEM

ACCESS CLASSIFICATION

CRITERIA

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

C1 : NATURAL

C2 : RURAL

C2T : RURAL TOWN

C3R : SUBURBAN RES.

N/A : L.A. FACILITY

C3C : SUBURBAN COMM.

C4 : URBAN GENERAL

C5 : URBAN CENTER

C6 : URBAN CORE

INTERSTATE

FREEWAY/EXPWY.

PRINCIPAL ARTERIAL

MINOR ARTERIAL

MAJOR COLLECTOR

MINOR COLLECTOR

LOCAL

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

1 - FREEWAY

2 - RESTRICTIVE w/Service Roads

3 - RESTRICTIVE w/660 ft. Connection Spacing

4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

5 - RESTRICTIVE w/440 ft. Connection Spacing

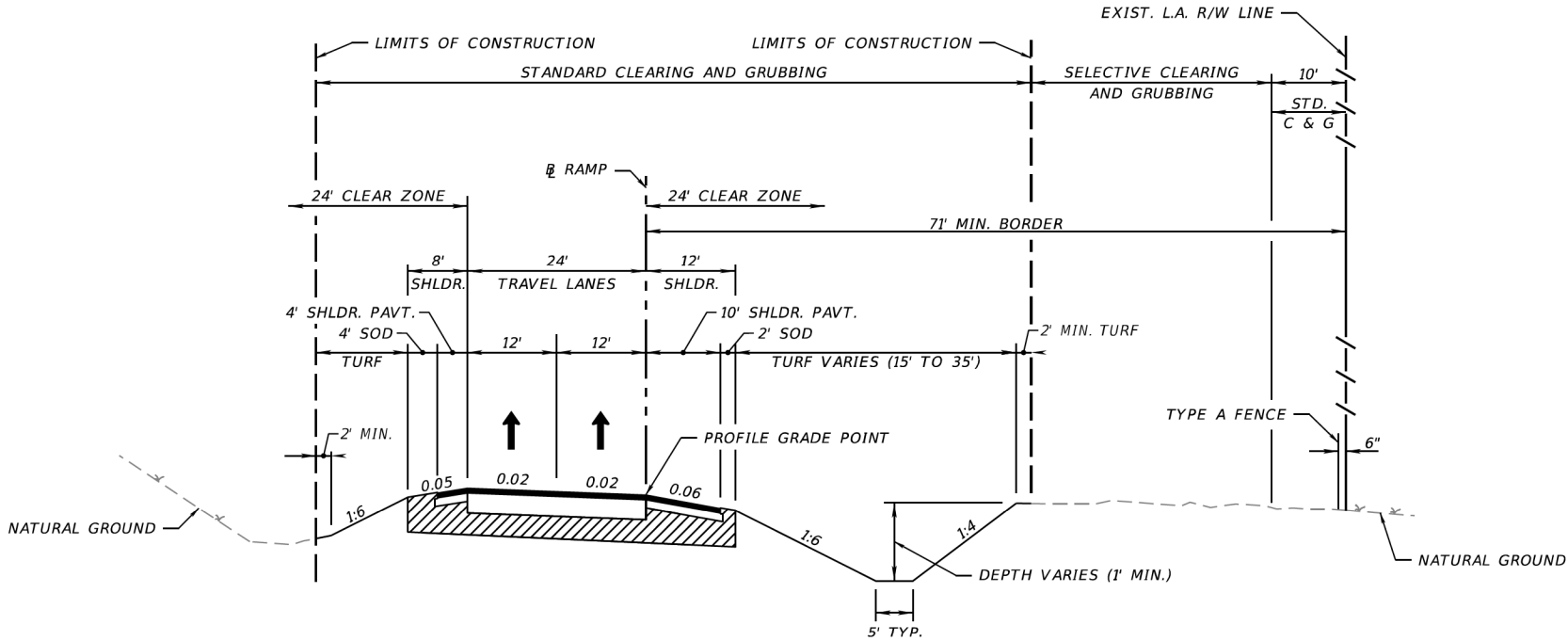
6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

7 - BOTH MEDIAN TYPES

NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

RRR (ARTERIALS & COLLECTORS)



TYPICAL SECTION 07
TWO LANE RAMP
SB ON RAMP MP 1.620 - MP 1.634
NB ON RAMP MP 1.695 - MP 1.715

TRAFFIC DATA NB ON RAMP

CURRENT YEAR = 2019 AADT = 2,600
ESTIMATED OPENING YEAR = 2025 AADT = 4,050
ESTIMATED DESIGN YEAR = 2045 AADT = 8,400
K = 9.51% D = 56.00% T = 18.20% (24 HOUR)
DESIGN HOUR T = 9.10%
POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH
TARGET SPEED = 45 MPH

TRAFFIC DATA SB ON RAMP

CURRENT YEAR = 2019 AADT = 5,500
ESTIMATED OPENING YEAR = 2025 AADT = 6,500
ESTIMATED DESIGN YEAR = 2045 AADT = 10,500
K = 9.51% D = 56.00% T = 18.20% (24 HOUR)
DESIGN HOUR T = 9.10%
POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH
TARGET SPEED = 45 MPH

FINANCIAL PROJECT ID	SHEET NO.
437983 1 22 01	09

PROJECT CONTROLS

CONTEXT CLASSIFICATION

FUNCTIONAL CLASSIFICATION

HIGHWAY SYSTEM

ACCESS CLASSIFICATION

CRITERIA

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

C1 : NATURAL

C2 : RURAL

C2T : RURAL TOWN

C3R : SUBURBAN RES.

N/A : L.A. FACILITY

C3C : SUBURBAN COMM.

C4 : URBAN GENERAL

C5 : URBAN CENTER

C6 : URBAN CORE

MAJOR COLLECTOR

MINOR COLLECTOR

LOCAL

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

1 - FREEWAY

2 - RESTRICTIVE w/Service Roads

3 - RESTRICTIVE w/660 ft. Connection Spacing

4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

5 - RESTRICTIVE w/440 ft. Connection Spacing

6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

7 - BOTH MEDIAN TYPES

NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

RRR (ARTERIALS & COLLECTORS)

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 2,800

ESTIMATED OPENING YEAR = 2025 AADT = 4,050

ESTIMATED DESIGN YEAR = 2045 AADT = 8,400

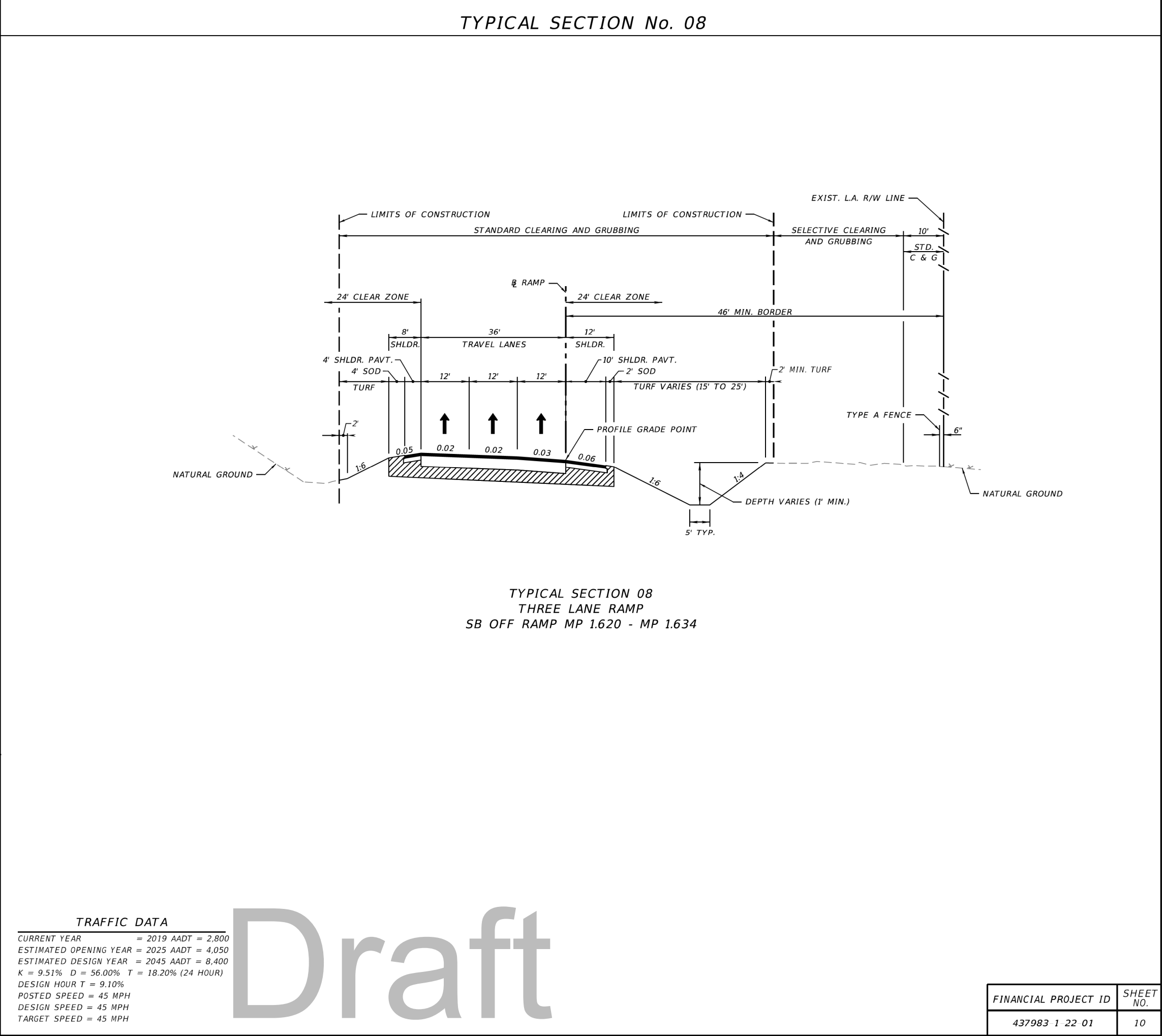
K = 9.51% D = 56.00% T = 18.20% (24 HOUR)

DESIGN HOUR T = 9.10%

POSTED SPEED = 45 MPH

DESIGN SPEED = 45 MPH

TARGET SPEED = 45 MPH



PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1 : NATURAL	() C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
() C3R : SUBURBAN RES.	() C6 : URBAN CORE
(X) N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION

(X)	INTERSTATE	()	MAJOR COLLECTOR
()	FREEWAY/EXPWY.	()	MINOR COLLECTOR
()	PRINCIPAL ARTERIAL	()	LOCAL
()	MINOR ARTERIAL		

HIGHWAY SYSTEM

(X) NATIONAL HIGHWAY SYSTEM
() STRATEGIC INTERMODAL SYSTEM
() STATE HIGHWAY SYSTEM
() OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

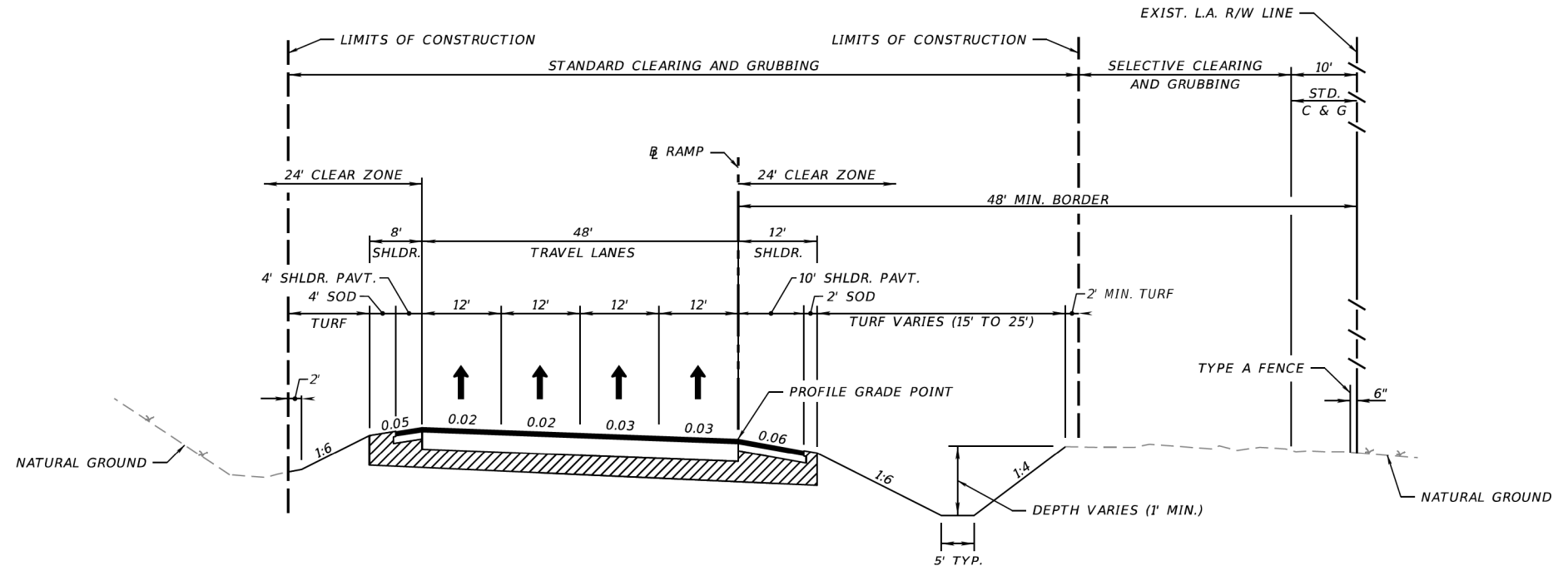
- (X) 1 - FREEWAY
- () 2 - RESTRICTIVE w/Service Roads
- () 3 - RESTRICTIVE w/660 ft. Connection Spacing
- () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 - RESTRICTIVE w/440 ft. Connection Spacing
- () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
() RESURFACING (LA FACILITIES)
() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS
RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 09



TYPICAL SECTION 09
FOUR LANE RAMP
NB OFF RAMP 1.695 - 1.715

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 5,200
ESTIMATED OPENING YEAR = 2025 AADT = 6,500
ESTIMATED DESIGN YEAR = 2045 AADT = 10,500
K = 9.51% D = 56.00% T = 18.20% (24 HOUR)
DESIGN HOUR T = 9.10%
POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH
TARGET SPEED = 45 MPH

Draft

FINANCIAL PROJECT ID	SHEET NO.
437983 1 22 01	11

PROJECT CONTROLS

CONTEXT CLASSIFICATION

FUNCTIONAL CLASSIFICATION

HIGHWAY SYSTEM

ACCESS CLASSIFICATION

CRITERIA

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

C1 : NATURAL

C2 : RURAL

C2T : RURAL TOWN

C3R : SUBURBAN RES.

N/A : L.A. FACILITY

(X) C3C : SUBURBAN COMM.

C4 : URBAN GENERAL

C5 : URBAN CENTER

C6 : URBAN CORE

INTERSTATE

FREEWAY/EXPWY.

PRINCIPAL ARTERIAL

MINOR ARTERIAL

MAJOR COLLECTOR

MINOR COLLECTOR

LOCAL

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

1 - FREEWAY

2 - RESTRICTIVE w/Service Roads

3 - RESTRICTIVE w/660 ft. Connection Spacing

4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

5 - RESTRICTIVE w/440 ft. Connection Spacing

6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

7 - BOTH MEDIAN TYPES

NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

RRR (ARTERIALS & COLLECTORS)

TYPICAL SECTION No. 10

TYPICAL SECTION 10

SR 524

COX ROAD ROUNDABOUT

MP 2.899 - MP 2.924

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 17,000

ESTIMATED OPENING YEAR = 2025 AADT = 21,000

ESTIMATED DESIGN YEAR = 2045 AADT = 32,000

K = 9.51% D = 56.00% T = 18.20% (24 HOUR)

DESIGN HOUR T = 9.10%

POSTED SPEED = 45 MPH

DESIGN SPEED = 45 MPH

TARGET SPEED = 45 MPH

FINANCIAL PROJECT ID

437983 1 22 01

SHEET NO.

12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Draft

PROJECT CONTROLS
CONTEXT CLASSIFICATION () C1 : NATURAL (X) C3C : SUBURBAN COMM. () C2 : RURAL () C4 : URBAN GENERAL () C2T : RURAL TOWN () C5 : URBAN CENTER () C3R : SUBURBAN RES. () C6 : URBAN CORE () N/A : L.A. FACILITY
FUNCTIONAL CLASSIFICATION () INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR () PRINCIPAL ARTERIAL () LOCAL (X) MINOR ARTERIAL
HIGHWAY SYSTEM () NATIONAL HIGHWAY SYSTEM () STRATEGIC INTERMODAL SYSTEM (X) STATE HIGHWAY SYSTEM () OFF-STATE HIGHWAY SYSTEM
ACCESS CLASSIFICATION () 1 - FREEWAY () 2 - RESTRICTIVE w/Service Roads () 3 - RESTRICTIVE w/660 ft. Connection Spacing () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing () 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing () 7 - BOTH MEDIAN TYPES
CRITERIA (X) NEW CONSTRUCTION / RECONSTRUCTION () RESURFACING (LA FACILITIES) () RRR (ARTERIALS & COLLECTORS)
POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 11

TYPICAL SECTION 11

SR 524

LONDON BOULEVARD ROUNDABOUT

MP 4.187 - MP 4.210

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 17,000

ESTIMATED OPENING YEAR = 2025 AADT = 21,000

ESTIMATED DESIGN YEAR = 2045 AADT = 32,000

K = 9.51% D = 56.00% T = 18.20% (24 HOUR)

DESIGN HOUR T = 9.10%

POSTED SPEED = 45 MPH

DESIGN SPEED = 45 MPH

TARGET SPEED = 45 MPH

Draft

FINANCIAL PROJECT ID	SHEET NO.
437983 1 22 01	13

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1 : NATURAL	() C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
() C3R : SUBURBAN RES.	() C6 : URBAN CORE
(X) N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION

(X)	INTERSTATE	()	MAJOR COLLECTOR
()	FREEWAY/EXPWY.	()	MINOR COLLECTOR
()	PRINCIPAL ARTERIAL	()	LOCAL
()	MINOR ARTERIAL		

HIGHWAY SYSTEM

(X) NATIONAL HIGHWAY SYSTEM
() STRATEGIC INTERMODAL SYSTEM
() STATE HIGHWAY SYSTEM
() OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

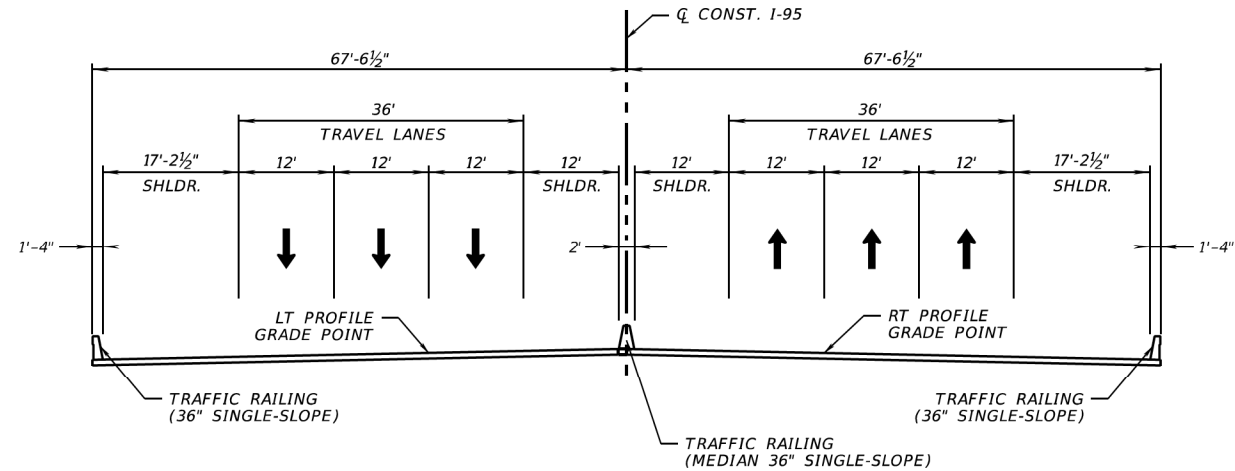
(X) 1 - FREEWAY
() 2 - RESTRICTIVE w/Service Roads
() 3 - RESTRICTIVE w/660 ft. Connection Spacing
() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
() 5 - RESTRICTIVE w/440 ft. Connection Spacing
() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
() 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
() RESURFACING (LA FACILITIES)
() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS
RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 12



TYPICAL SECTION 12
I-95 BRIDGE
MP 1.130 - MP 1.166

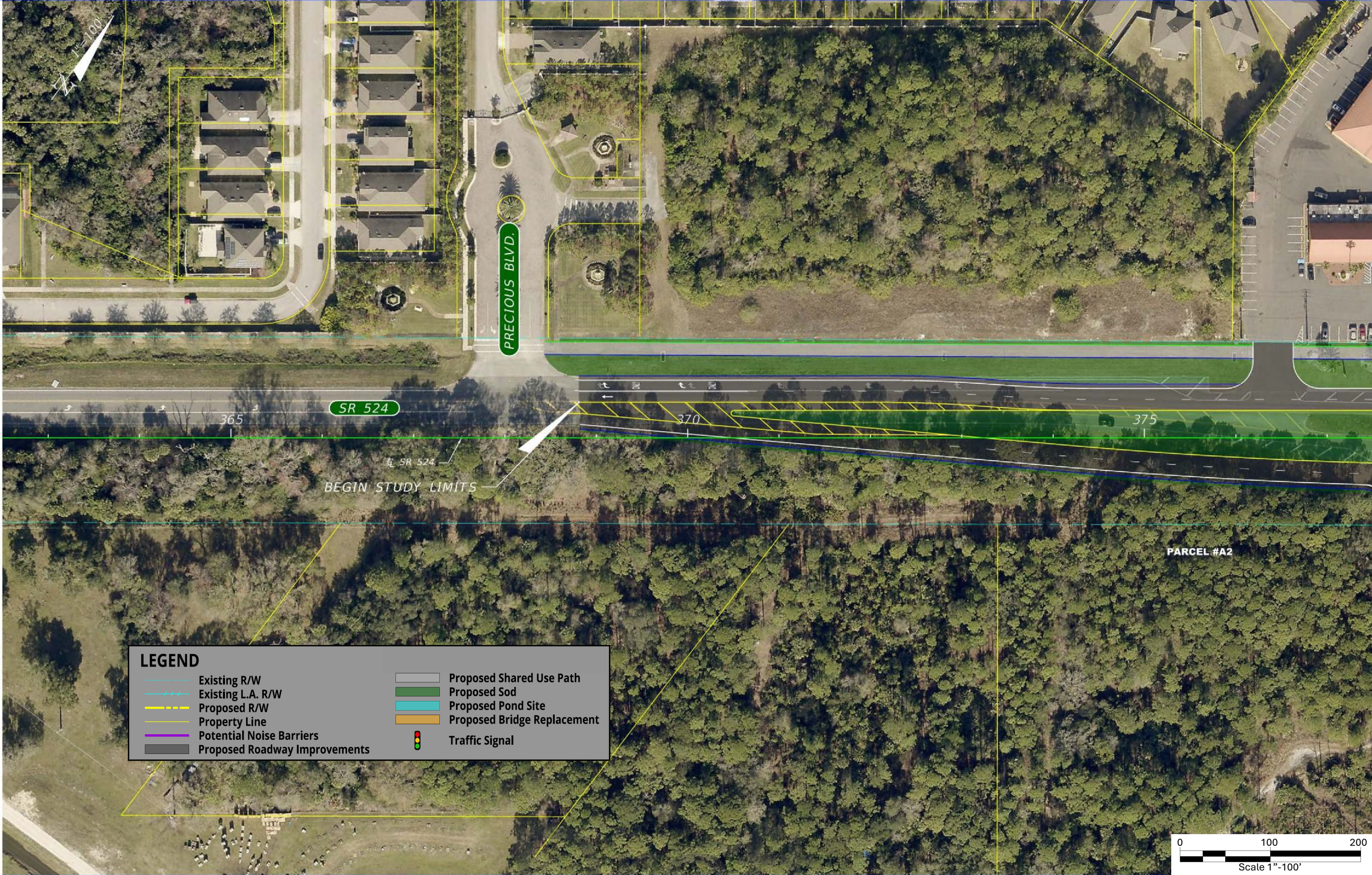
TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 69,000
ESTIMATED OPENING YEAR = 2025 AADT = 84,000
ESTIMATED DESIGN YEAR = 2045 AADT = 101,200
K = 9.00% D = 55.00% T = 19.00% (24 HOUR)
DESIGN HOUR T = 9.50%
POSTED SPEED = 70 MPH
DESIGN SPEED = 70 MPH
TARGET SPEED = 70 MPH

FINANCIAL PROJECT ID	SHEET NO.
437983-1-22-01	14

Appendix C – PREFERRED ALTERNATIVE CONCEPT PLANS

Draft



LEGEND

- Existing R/W
- Existing L.A. R/W
- Proposed R/W
- Property Line
- Potential Noise Barriers
- Proposed Roadway Improvements

- Proposed Shared Use Path
- Proposed Sod
- Proposed Pond Site
- Proposed Bridge Replacement
- Traffic Signal

Digital

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

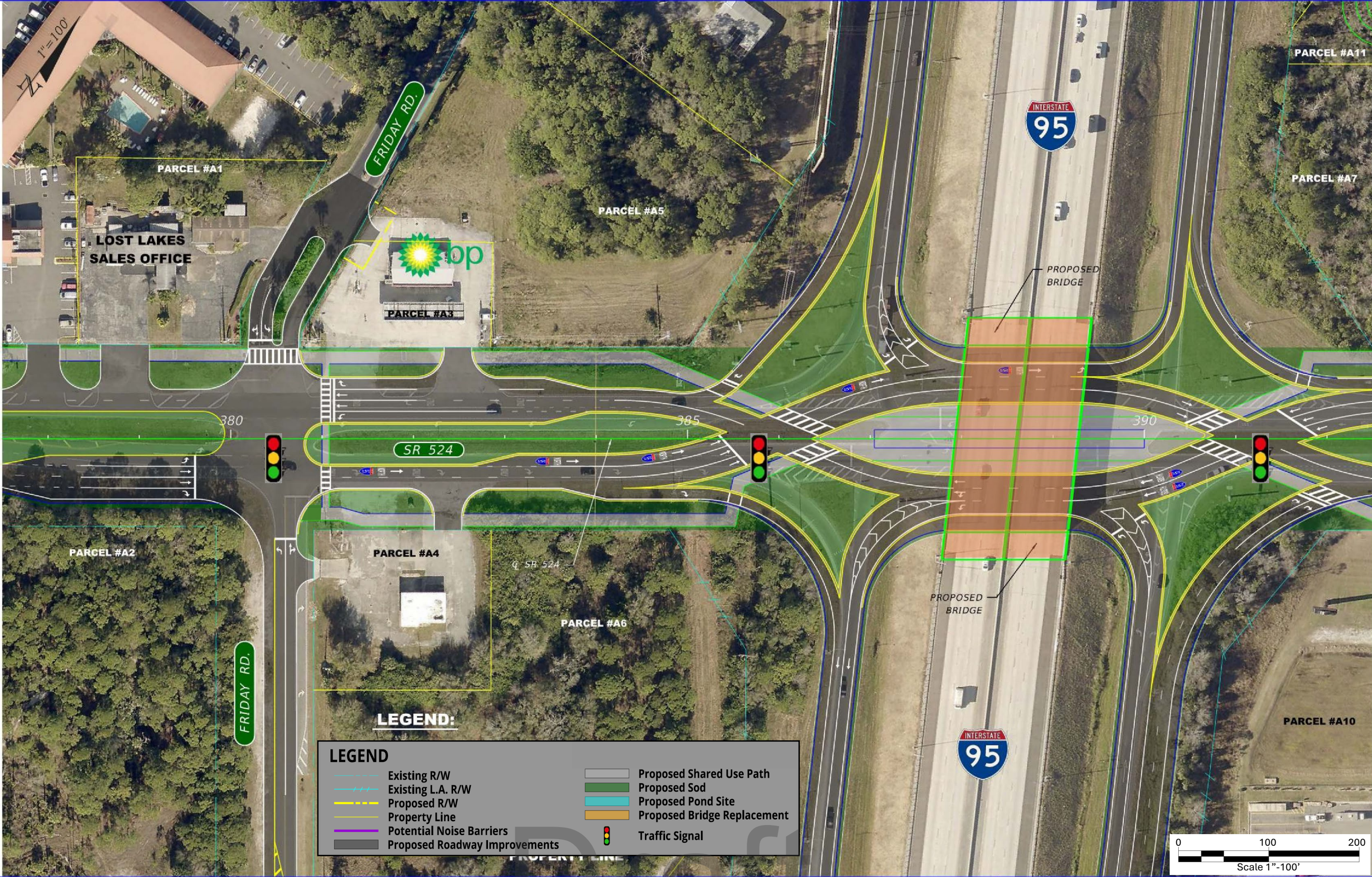
SR 524 CONCEPTUAL PLANS
PREFERRED ALTERNATIVE

SHEET NO.
1

8/13/2024 3:00:38 PM jchestnut
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REVISIONS	
DATE	DESCRIPTION

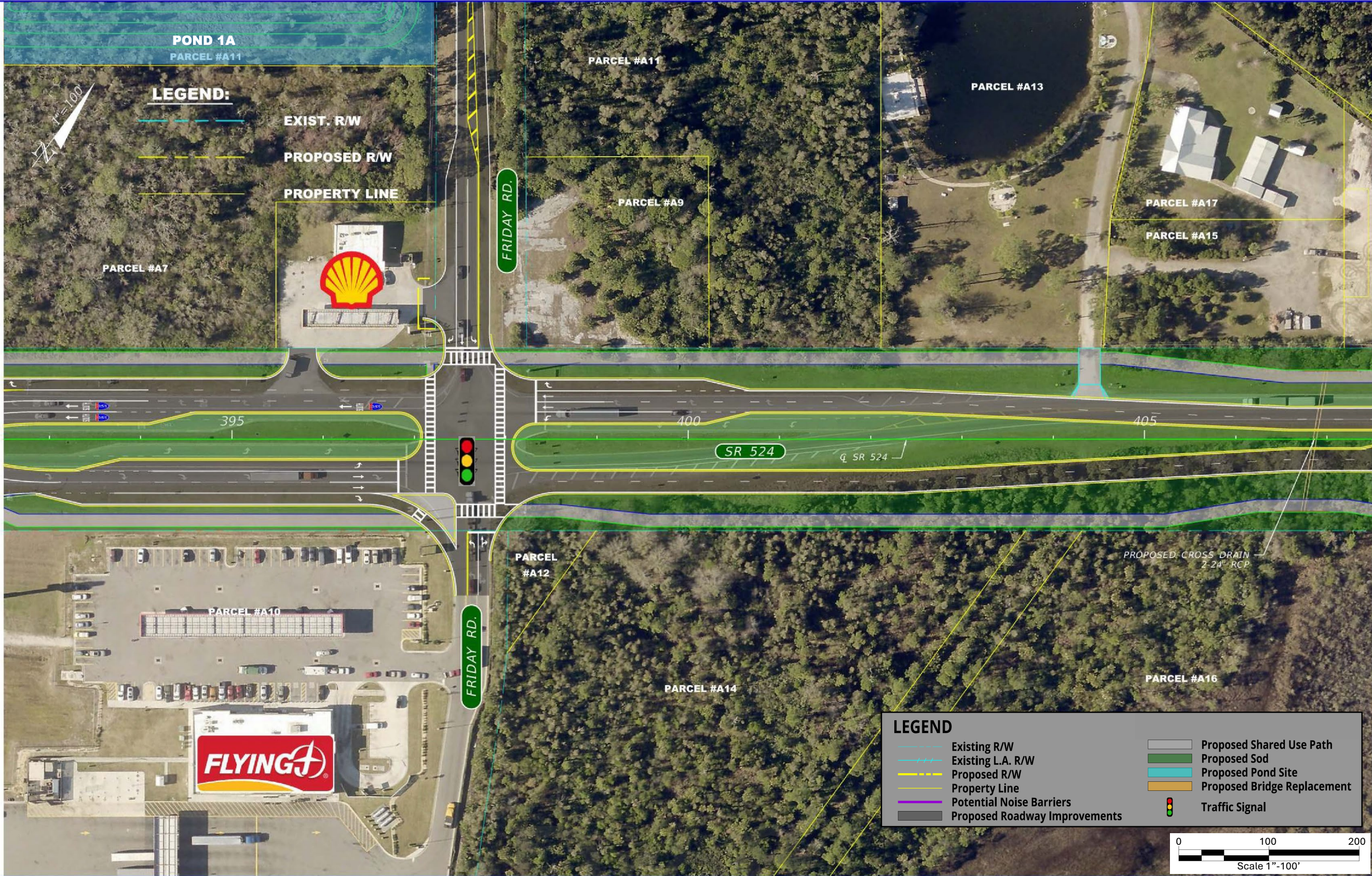
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE		SHEET NO.
		2



8/13/2024 3:01:08 PM jchestnut
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE		SHEET NO.
		3

LEGEND

Existing R/W

Existing L.A. R/W

Proposed R/W

Property Line

Potential Noise Barriers

Proposed Roadway Improvements

Proposed Shared Use Path

Proposed Sod

Proposed Pond Site

Proposed Bridge Replacement

Traffic Signal

1"=100'

PARCEL #A19

PARCEL #A21

PARCEL #A23

PARCEL #A25

PARCEL #A27

PARCEL #A31

PARCEL #A33

PARCEL #A16

PARCEL #A20

SR 524

410

415

420

Q SR 524

THEN THAI LANE

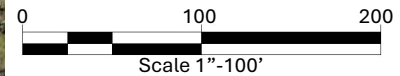
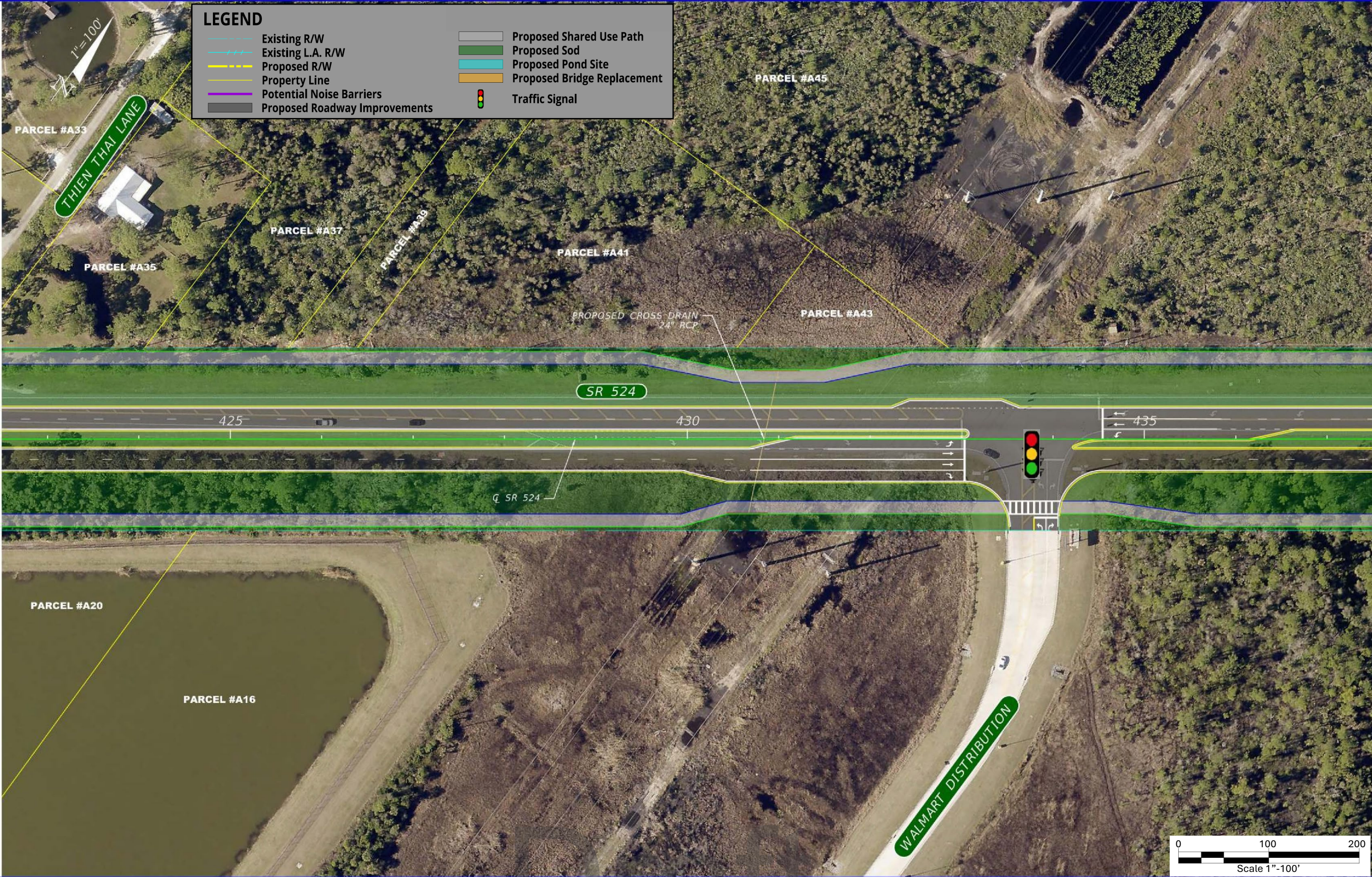
Draft

8/13/2024 3:01:23 PM jchestnut
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE		SHEET NO.
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

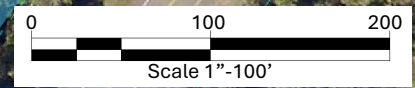
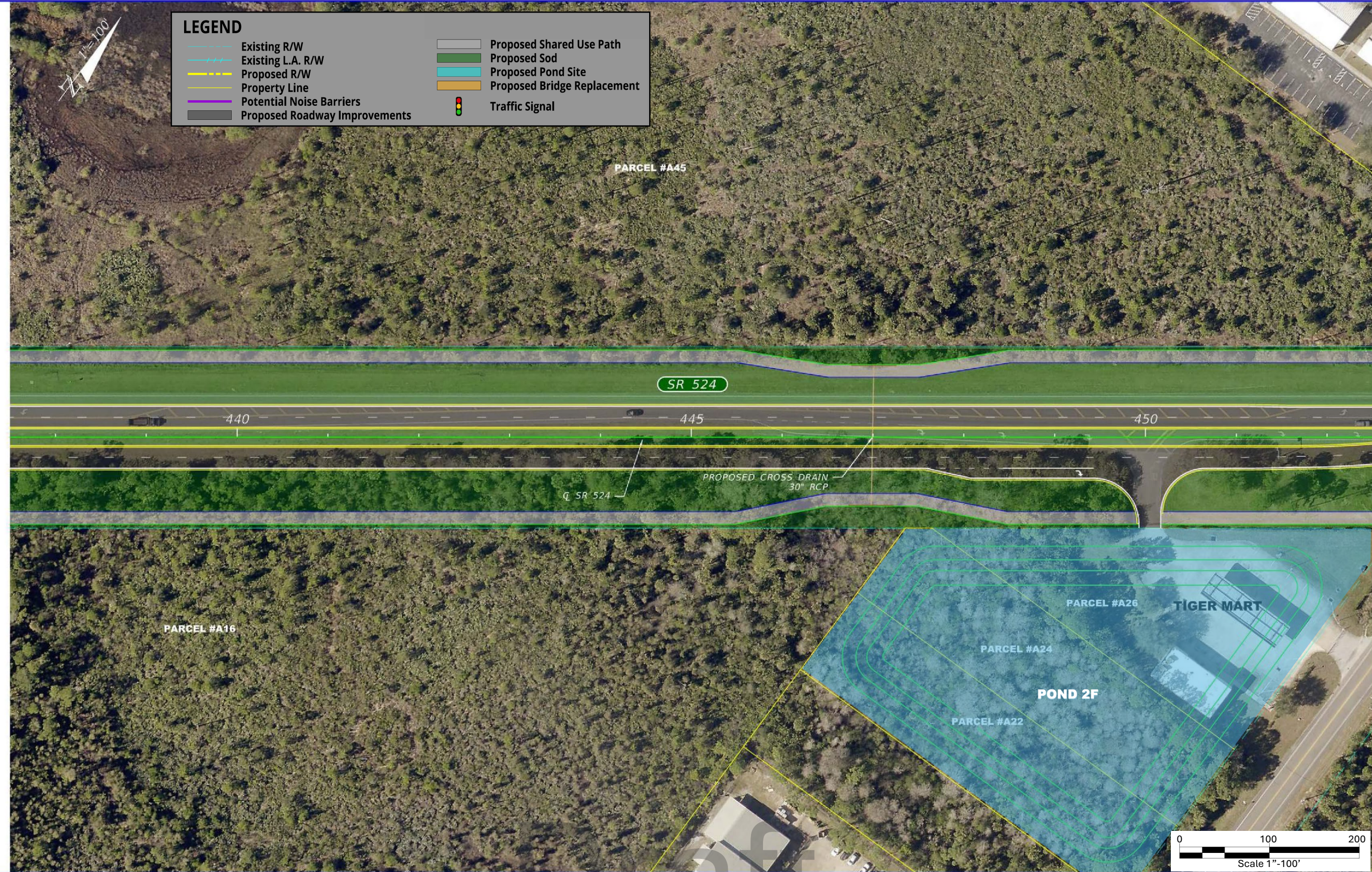
SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE		SHEET NO.
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LEGEND

Existing R/W

Existing L.A. R/W

Proposed R/WProposed Shared Use Path

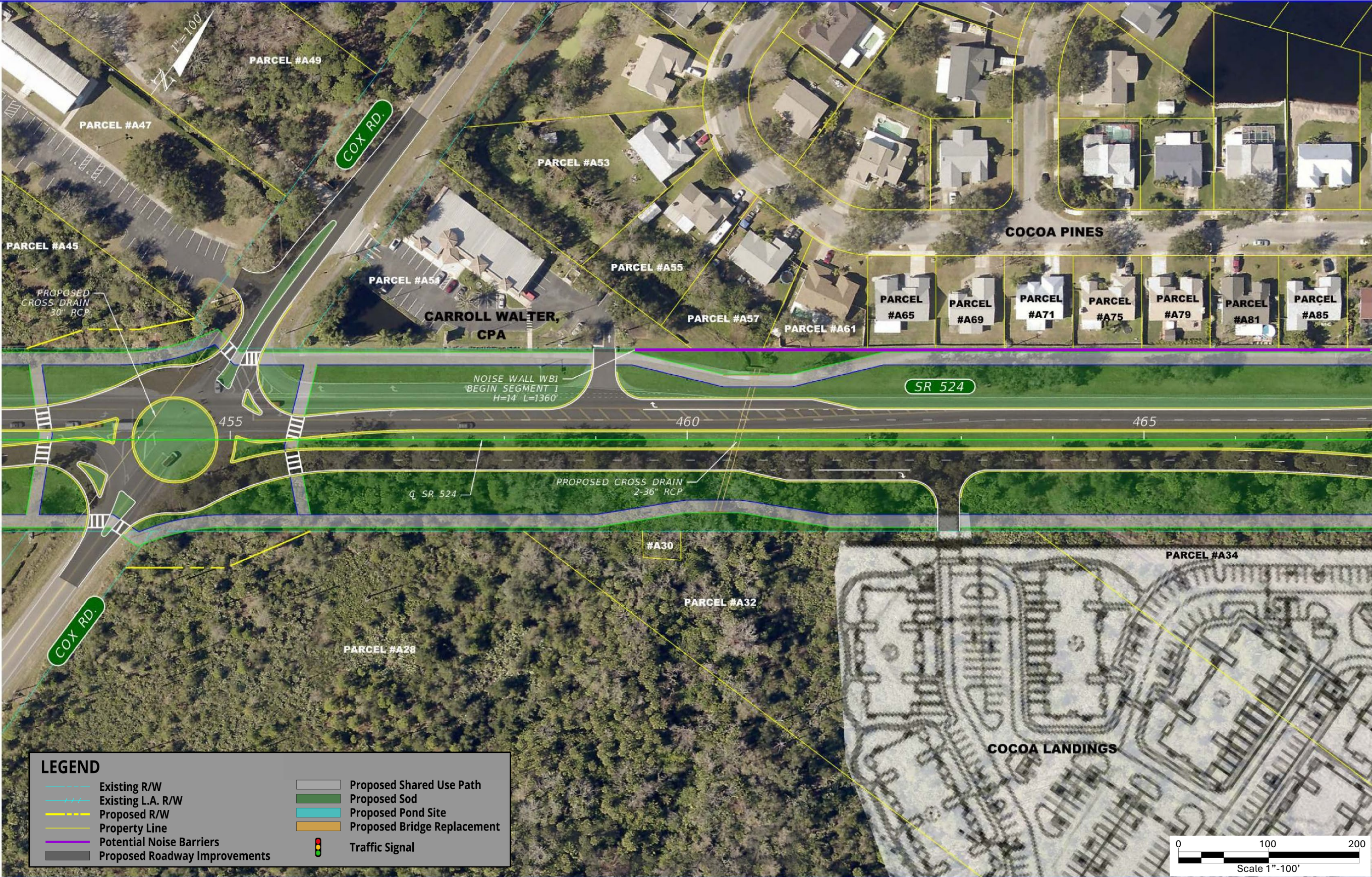
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REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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**SR 524 CONCEPTUAL PLANS
PREFERRED ALTERNATIVE**

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LEGEND

Existing R/W

Existing L.A. R/W

Proposed R/W

Property Line

Potential Noise Barriers

Proposed Roadway Improvements

Proposed Shared Use Path

Proposed Sod

Proposed Pond Site

Proposed Bridge Replacement

Traffic Signal

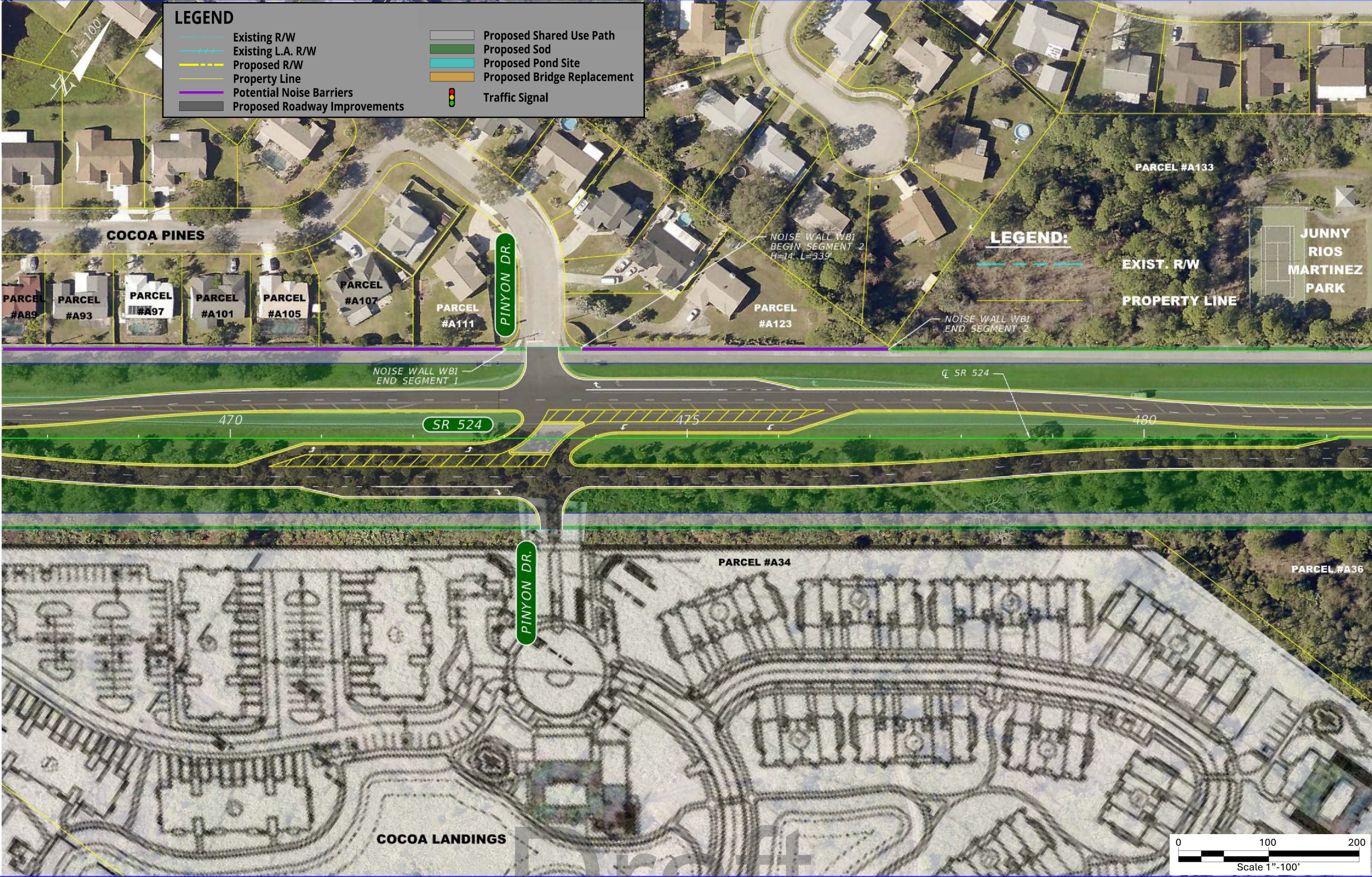
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

**SR 524 CONCEPTUAL PLANS
PREFERRED ALTERNATIVE**

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7



LEGEND

Existing R/W

Existing L.A. R/W

Proposed R/W

Property Line

Potential Noise Barriers

Proposed Roadway Improvements

Proposed Shared Use Path

Proposed Sod

Proposed Pond Site

Proposed Bridge Replacement

Traffic Signal

LEGEND:

EXIST. R/W

PROPERTY LINE

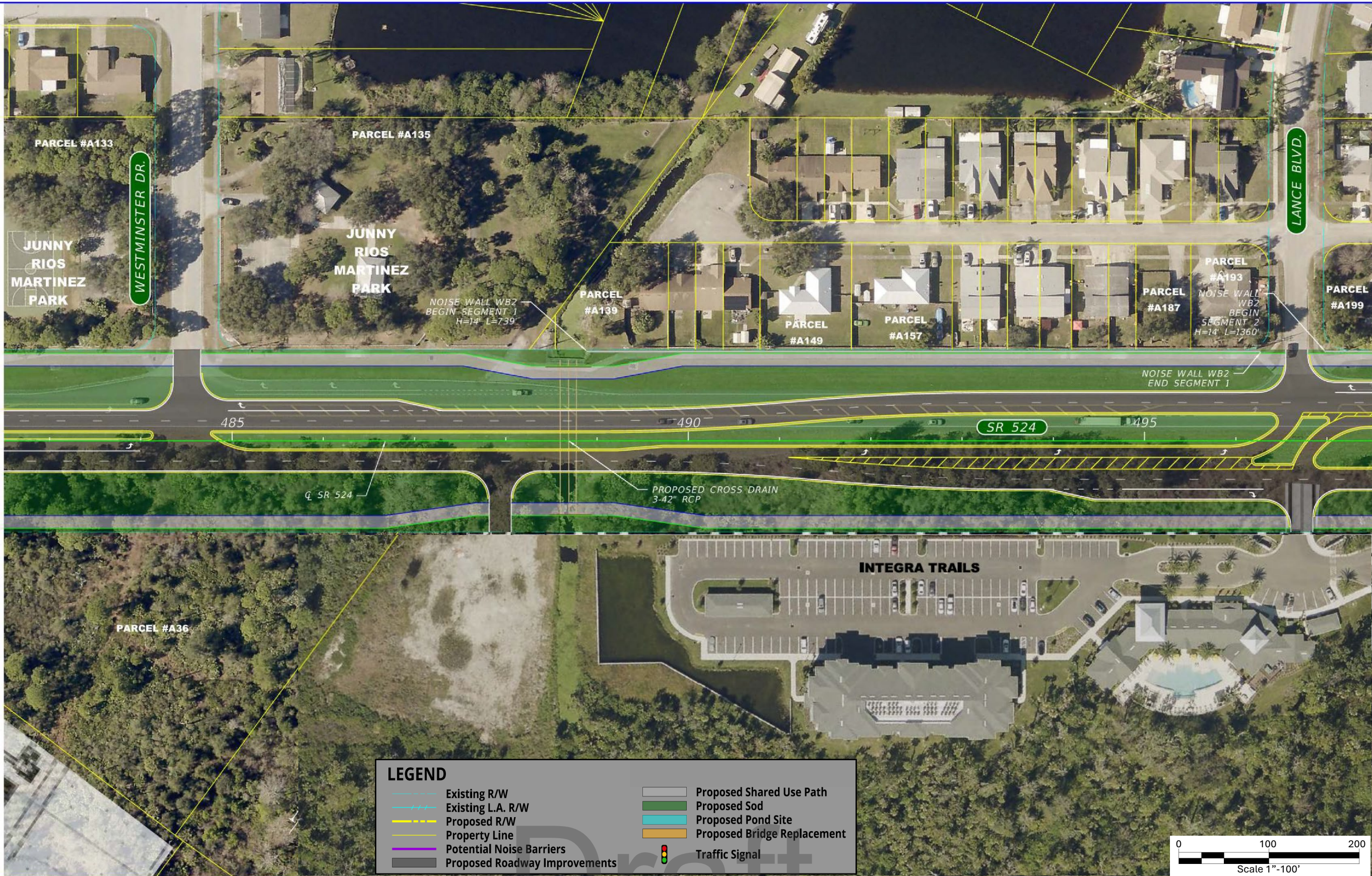
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE	

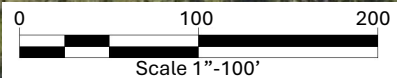
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LEGEND

- Existing R/W
- Existing L.A. R/W
- Proposed R/W
- Property Line
- Potential Noise Barriers
- Proposed Roadway Improvements

- Proposed Shared Use Path
- Proposed Sod
- Proposed Pond Site
- Proposed Bridge Replacement
- Traffic Signal

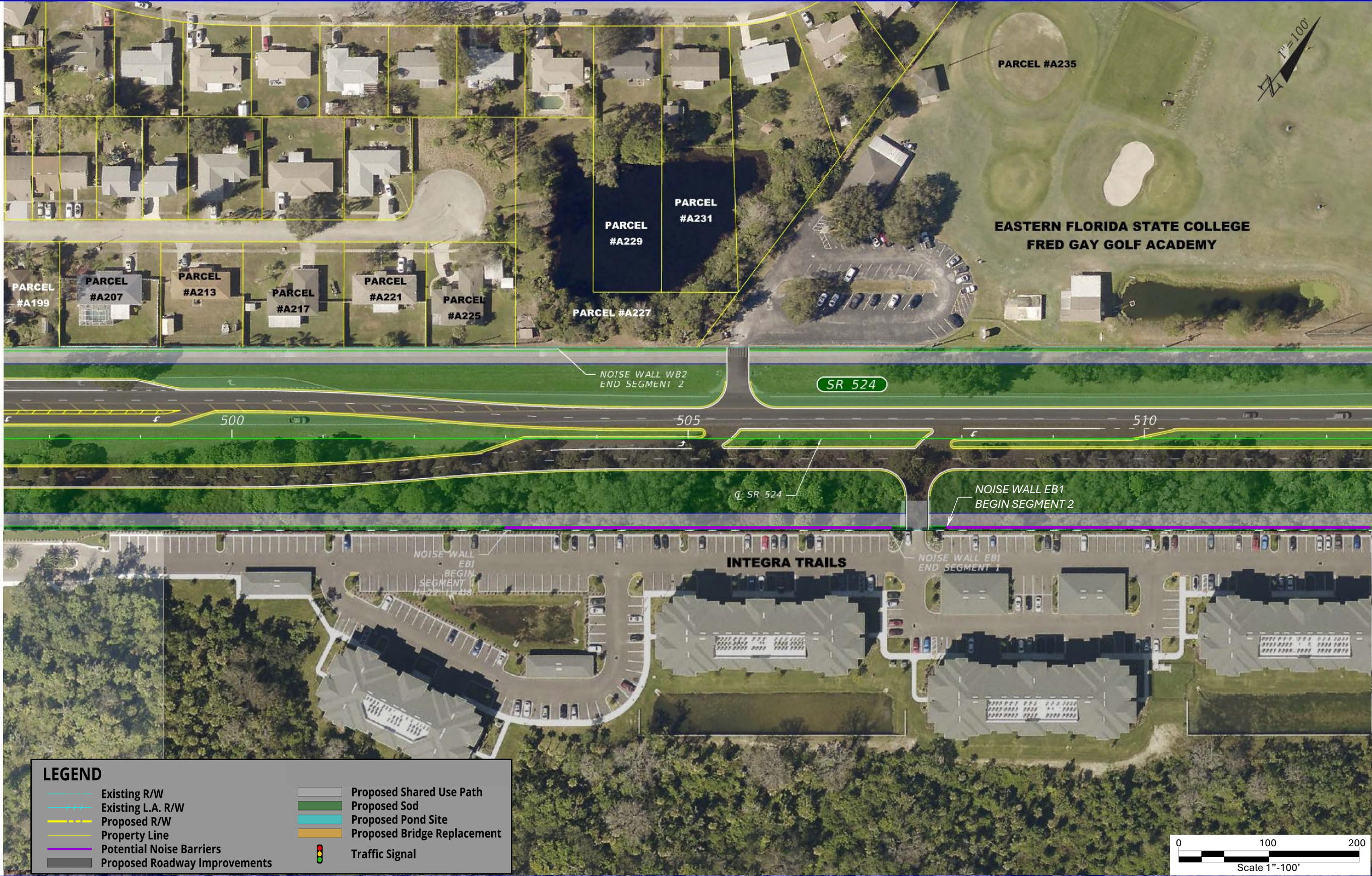


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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SR 524	BREVARD	437983-1-22-01

**SR 524 CONCEPTUAL PLANS
PREFERRED ALTERNATIVE**

SHEET NO.
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LEGEND

Existing R/W

Existing L.A. R/W

Proposed R/W

Property Line

Potential Noise Barriers

Proposed Roadway Improvements

Proposed Shared Use Path

Proposed Sod

Proposed Pond Site

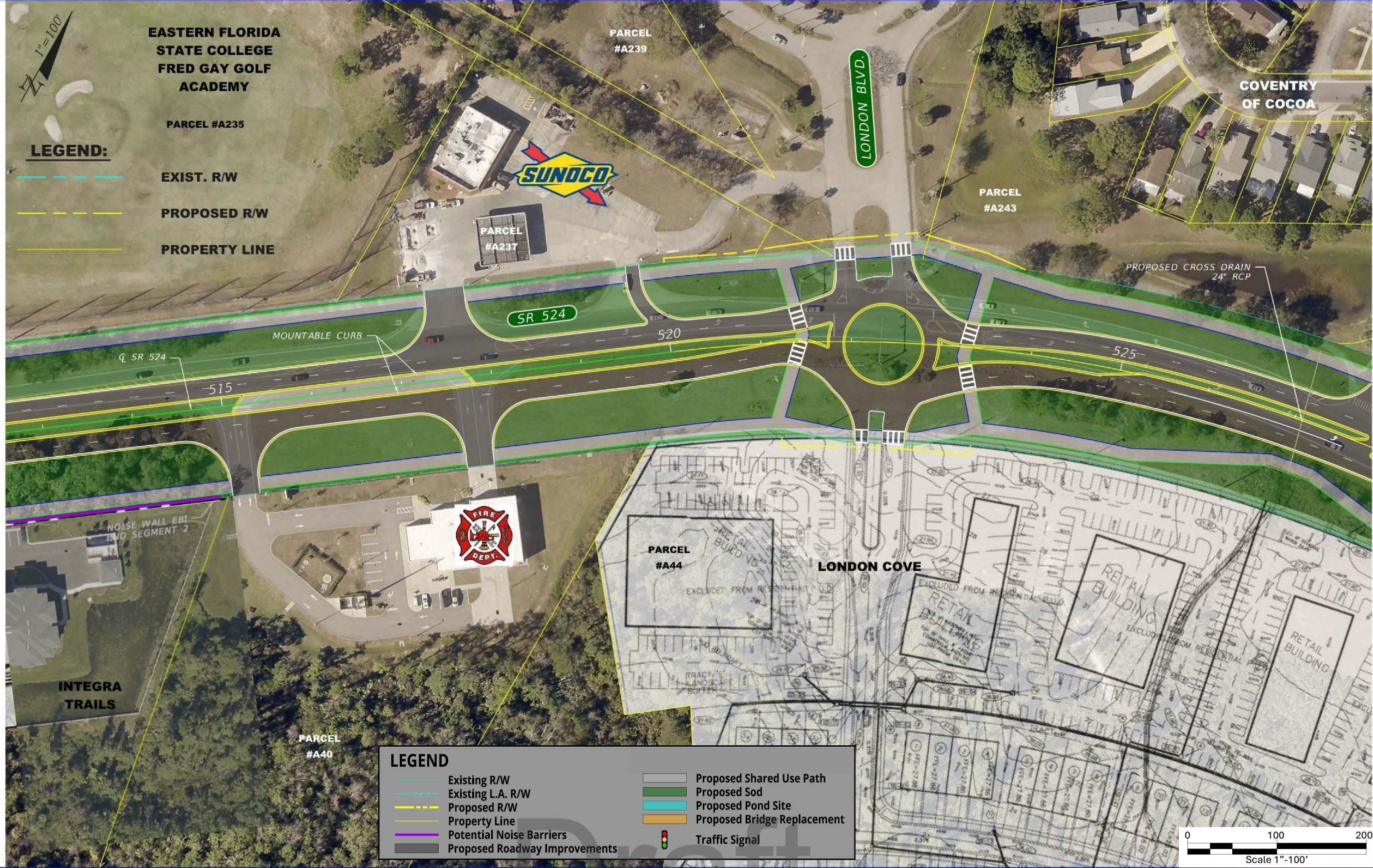
Proposed Bridge Replacement

Traffic Signal

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

**SR 524 CONCEPTUAL PLANS
PREFERRED ALTERNATIVE**

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REVISIONS			
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SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE		SHEET NO.
		11



LEGEND

- Existing R/W
- Existing L.A. R/W
- Proposed R/W
- Property Line
- Potential Noise Barriers
- Proposed Roadway Improvements
- Proposed Shared Use Path
- Proposed Sod
- Proposed Pond Site
- Proposed Bridge Replacement
- Traffic Signal

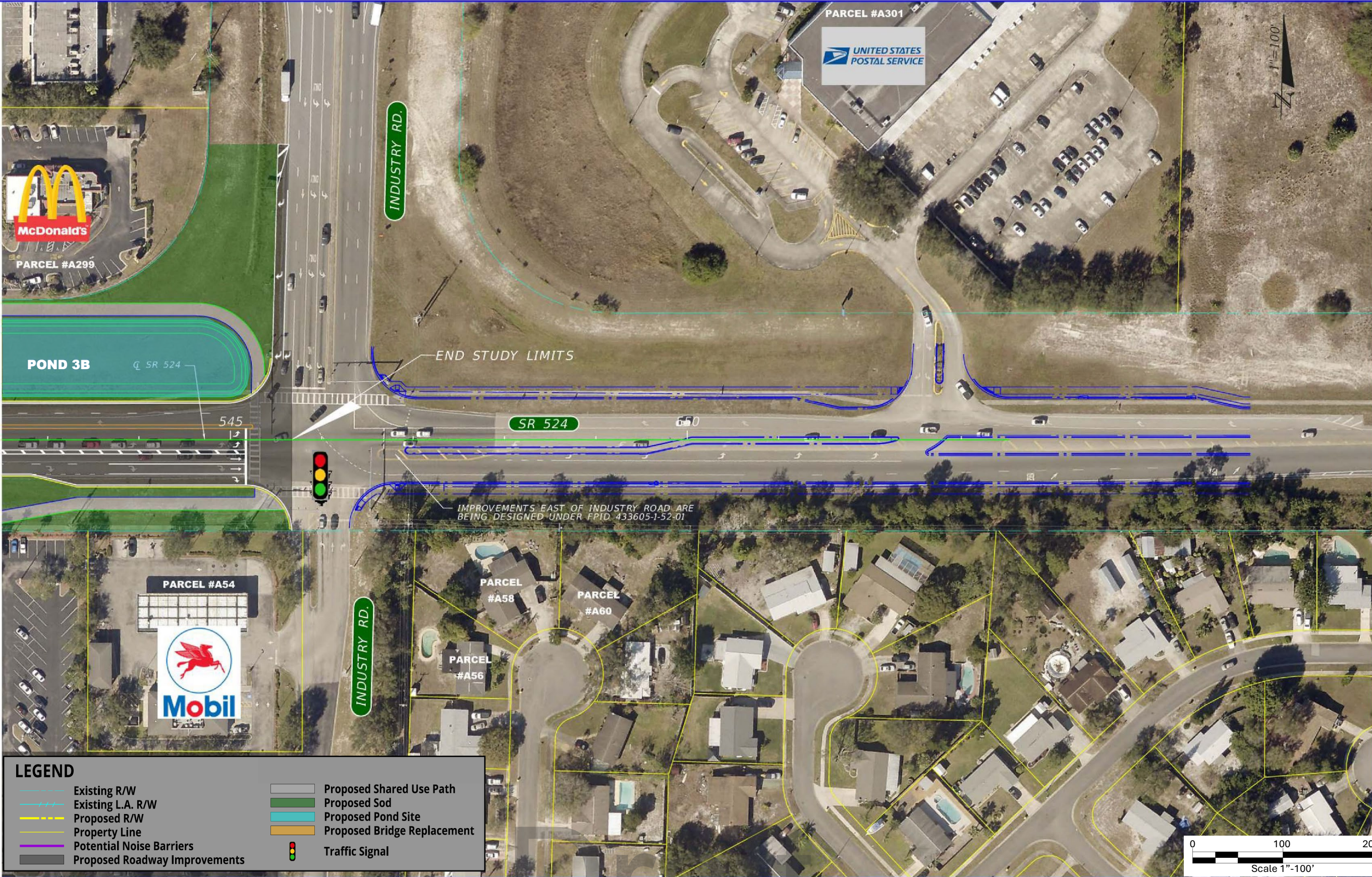
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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**SR 524 CONCEPTUAL PLANS
PREFERRED ALTERNATIVE**

SHEET NO.
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REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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SR 524 CONCEPTUAL PLANS PREFERRED ALTERNATIVE		SHEET NO.
		13

Appendix D - PARCEL IMPACT EXHIBITS

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REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PARCEL IMPACTS

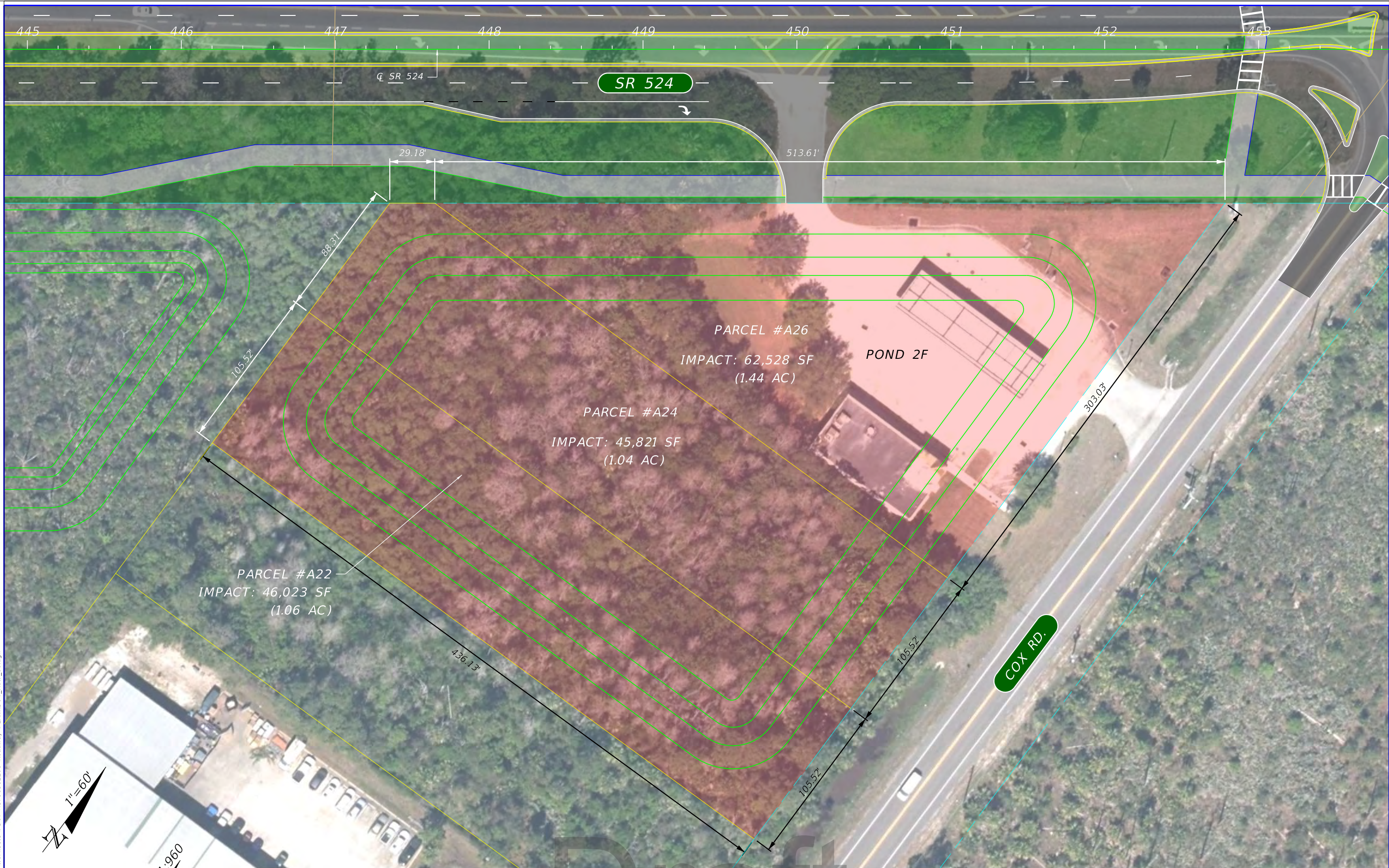
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PARCEL IMPACTS	

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REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PARCEL IMPACTS	
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 524	BREVARD	437983-1-22-01

PARCEL IMPACTS	SHEET NO.
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Appendix E - SUMMARY OF COST FOR BUILD ALTERNATIVES

Draft

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FDOT Long Range Estimating System - Production

R4: Project Details Composite Report By Component

Project: 437983-1-52-01**Letting Date:** 01/2099**Description:** SR 524 FROM FRIDAY ROAD (WEST OF I-95) TO INDUSTRY ROAD (MP 1.510 - 4.651)**District:** 05 **County:** 70 BREVARD**Project Manager:** JTG**Version 16 Project Grand Total****\$138,886,148.27****Description:** SR 524 FROM FRIDAY ROAD TO INDUSTRY ROAD. Preferred Alt: 4-Lane curbed. Updated prior to public hearing (Updated by KNACEJN on 5/13/2025 - May 2025)

EARTHWORK COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
110-1-1	CLEARING & GRUBBING	100.68 AC	\$67,103.20	\$6,755,950.18
120-1	REGULAR EXCAVATION	2,953.26 CY	\$36.28	\$107,144.27
120-6	EMBANKMENT	337,635.83 CY	\$52.20	\$17,624,590.31
Earthwork Component Total				\$24,487,684.76

ROADWAY COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
160-4	TYPE B STABILIZATION	257,380.27 SY	\$18.79	\$4,836,175.27
285-701	OPTIONAL BASE,BASE GROUP 01	16,293.85 SY	\$35.68	\$581,364.57
285-709	OPTIONAL BASE,BASE GROUP 09	153,046.18 SY	\$54.19	\$8,293,572.49
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	12,717.01 TN	\$175.96	\$2,237,685.08
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	254.00 TN	\$311.07	\$79,011.78
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	12,195.61 TN	\$215.68	\$2,630,349.17
339-1	MISCELLANEOUS ASPHALT PAVEMENT	10.33 TN	\$487.88	\$5,039.80
350-3-13	PLAIN CEMENT CONC PAVT, 12"	16,000.51 SY	\$208.86	\$3,341,866.52
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,020.00 LF	\$51.67	\$52,703.40
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,630.00 SY	\$98.23	\$160,114.90
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	68,040.00 SF	\$51.40	\$3,497,256.00
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	3,500.00 LF	\$27.90	\$97,650.00
536-73	GUARDRAIL REMOVAL	3,200.00 LF	\$2.66	\$8,512.00
536-85-24	GUARDRAIL END TREATMENT- PARA APP TERM	4.00 EA	\$3,601.34	\$14,405.36
536-85-26	GUARDRAIL END TREATMENT- TYPE CRT	5.00 EA	\$2,643.08	\$13,215.40
706-1-3	RAISED PAVMT MARK, TYPE B	1,754.00 EA	\$4.68	\$8,208.72

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	10.41 GM	\$1,513.70	\$15,757.63
710-11-123	PAINTED PAVT MARK,STD,WHITE,SOLID, 12"	880.00 LF	\$1.57	\$1,381.60
710-11-125	PAINTED PAVT MARK,STD,WHITE,SOLID,24"	986.00 LF	\$2.54	\$2,504.44
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	7.36 GM	\$589.78	\$4,340.79
710-11-141	PAINTED PAVT MARK,STD,WH,DOT GUIDE, 6"	0.12 GM	\$802.50	\$96.30
710-11-144	PAINTED PAVEMENT MARKINGS, STANDARD, WHI	0.04 GM	\$1,604.00	\$64.16
710-11-160	PAINTED PAVT MARK,STD,WHITE, MESSAGE	4.00 EA	\$78.50	\$314.00
710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	12.00 EA	\$46.19	\$554.28
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	0.74 GM	\$1,501.86	\$1,111.38
710-11-224	PAINTED PAVT MARK,STD,YELLOW,SOLID,18"	200.00 LF	\$1.73	\$346.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.06 GM	\$606.50	\$36.39
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	2,664.00 LF	\$3.55	\$9,457.20
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	2,448.00 LF	\$7.98	\$19,535.04
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	10.00 EA	\$145.14	\$1,451.40
711-12-125	THERMOPLASTIC,REFURB, WHITE, SOLID, 24"	268.00 LF	\$6.43	\$1,723.24
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	108.00 EA	\$137.44	\$14,843.52
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	3.10 GM	\$6,203.73	\$19,231.57
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.29 GM	\$1,819.63	\$2,347.32
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	3.40 GM	\$6,146.68	\$20,898.71
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	7.97 GM	\$5,388.24	\$42,944.26
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	7.55 GM	\$1,663.63	\$12,560.40
711-16-201	THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6"	5.59 GM	\$5,452.51	\$30,479.54
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.06 GM	\$1,879.83	\$112.79
Roadway Component Total			\$26,059,222.42	

SHOULDER COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
104-10-3	SEDIMENT BARRIER	50,215.73 LF	\$3.00	\$150,647.19
104-11	FLOATING TURBIDITY BARRIER	1,057.32 LF	\$14.42	\$15,246.54
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	1,057.32 LF	\$5.79	\$6,121.90
104-15	SOIL TRACKING PREVENTION DEVICE	26.00 EA	\$4,540.16	\$118,044.16

104-18	INLET PROTECTION SYSTEM	166.00 EA	\$189.54	\$31,463.64
107-1	LITTER REMOVAL	100.32 AC	\$38.30	\$3,842.28
107-2	MOWING	100.32 AC	\$77.59	\$7,783.86
285-701	OPTIONAL BASE,BASE GROUP 01	616.00 SY	\$35.68	\$21,978.88
285-704	OPTIONAL BASE,BASE GROUP 04	14,145.32 SY	\$55.90	\$790,723.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	680.24 TN	\$175.96	\$119,695.03
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	533.04 TN	\$200.89	\$107,082.41
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	478.28 TN	\$230.66	\$110,320.08
337-7-82	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	52.67 TN	\$311.07	\$16,384.06
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	114.19 TN	\$215.68	\$24,628.51
520-1-10	CONCRETE CURB & GUTTER, TYPE F	34,383.96 LF	\$51.67	\$1,776,619.23
520-6	SHOULDER GUTTER- CONCRETE	6,935.00 LF	\$57.24	\$396,959.40
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	53,742.08 SY	\$98.23	\$5,279,084.51
527-2	DETECTABLE WARNINGS	416.00 SF	\$35.88	\$14,926.08
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.76 GM	\$2,318.64	\$1,762.17
546-72-51	RUMBLE STRIPS, GROUND-IN, 16" MIN. WIDTH	0.36 PM	\$697.53	\$251.11
570-1-1	PERFORMANCE TURF	198,530.18 SY	\$3.13	\$621,399.48
570-1-2	PERFORMANCE TURF, SOD	1,520.00 SY	\$5.67	\$8,618.40
Shoulder Component Total				\$9,623,582.30

MEDIAN COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
285-704	OPTIONAL BASE,BASE GROUP 04	5,480.18 SY	\$55.90	\$306,342.06
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	539.01 TN	\$175.96	\$94,844.20
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	261.00 TN	\$230.66	\$60,202.26
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	51.34 TN	\$215.68	\$11,073.01
339-1	MISCELLANEOUS ASPHALT PAVEMENT	61.00 TN	\$487.88	\$29,760.68
350-30-13	CONC PAVEMENT FOR ROUNDABOUT APRON, 12"	960.00 SY	\$351.67	\$337,603.20
520-1-7	CONCRETE CURB & GUTTER, TYPE E	36,939.00 LF	\$52.71	\$1,947,054.69
520-2-4	CONCRETE CURB, TYPE D	560.00 LF	\$55.40	\$31,024.00
520-2-8	CONCRETE CURB, TYPE RA	740.00 LF	\$49.63	\$36,726.20
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	2,000.00 LF	\$220.48	\$440,960.00
527-2	DETECTABLE WARNINGS	160.00 SF	\$35.88	\$5,740.80
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.00 GM	\$2,318.64	\$2,318.64
570-1-1	PERFORMANCE TURF	51,921.77 SY	\$3.13	\$162,515.15
570-1-2	PERFORMANCE TURF, SOD	1,800.00 SY	\$5.67	\$10,206.00
Median Component Total				\$3,476,370.89

DRAINAGE COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
110-1-1	CLEARING & GRUBBING	9.00 AC	\$67,103.20	\$603,928.80
120-1	REGULAR EXCAVATION	96,800.00 CY	\$36.28	\$3,511,904.00
425-1-351	INLETS, CURB, TYPE P-5, <10'	113.00 EA	\$10,211.98	\$1,153,953.74
425-1-361	INLETS, CURB, TYPE P-6, <10'	4.00 EA	\$11,476.46	\$45,905.84
425-1-451	INLETS, CURB, TYPE J-5, <10'	36.00 EA	\$17,775.91	\$639,932.76
425-1-521	INLETS, DT BOT, TYPE C, <10'	23.00 EA	\$8,114.81	\$186,640.63
425-1-541	INLETS, DT BOT, TYPE D, <10'	5.00 EA	\$10,192.34	\$50,961.70
425-1-551	INLETS, DT BOT, TYPE E, <10'	8.00 EA	\$8,483.39	\$67,867.12
425-2-41	MANHOLES, P-7, <10'	23.00 EA	\$8,127.14	\$186,924.22
425-2-71	MANHOLES, J-7, <10'	6.00 EA	\$21,181.84	\$127,091.04
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	776.00 LF	\$240.45	\$186,589.20
430-174-130	PIPE CULV, OPT MATL, ROUND,30"SD	280.00 LF	\$253.48	\$70,974.40
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	8,536.00 LF	\$445.99	\$3,806,970.64
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	952.00 LF	\$621.41	\$591,582.32
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	280.00 LF	\$1,583.33	\$443,332.40
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	14,976.00 LF	\$420.82	\$6,302,200.32
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	1,200.00 LF	\$680.74	\$816,888.00
430-982-133	MITERED END SECT, OPTIONAL RD, 30" CD	2.00 EA	\$5,728.40	\$11,456.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	35.00 EA	\$4,771.00	\$166,985.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	1,041.80 SY	\$102.87	\$107,169.96
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	4,220.00 LF	\$48.19	\$203,361.80
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1- 20'OPEN	4.00 EA	\$5,367.65	\$21,470.60
570-1-1	PERFORMANCE TURF	50,089.74 SY	\$3.13	\$156,780.91
Drainage Component Total				\$19,460,872.20

SIGNING COMPONENT

Pay Items				
Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	24.00 AS	\$521.64	\$12,519.36
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	118.00 EA	\$557.92	\$65,834.56
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	65.00 EA	\$2,040.88	\$132,657.20
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00 AS	\$7,604.02	\$15,208.04
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1- 50 SF	11.00 EA	\$9,480.32	\$104,283.52
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1- 100 SF	24.00 EA	\$9,951.52	\$238,836.48
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1- 200 SF	15.00 EA	\$16,662.33	\$249,934.95
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	4.00 EA	\$7,132.06	\$28,528.24
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	3.00 EA	\$10,808.89	\$32,426.67
700-3-210	SIGN PANEL, F&I OM, 501-600 SF	4.00 EA	\$20,723.26	\$82,893.04
700-4-125	OH STATIC SIGN STR, F&I, S 51-100 FT	6.00 EA	\$237,643.28	\$1,425,859.68

700-4-126	OH STATIC SIGN STR, F&I, S 101-150 FT	1.00 EA	\$289,580.96	\$289,580.96
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Signing Component Total

\$2,678,562.70

LIGHTING COMPONENT**Pay Items**

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	22,088.00 LF	\$24.72	\$546,015.36
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	3,510.80 LF	\$36.80	\$129,197.44
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24"	140.00 EA	\$1,765.94	\$247,231.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	77,801.40 LF	\$3.54	\$275,416.96
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	118.00 EA	\$10,386.97	\$1,225,662.46
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	22.00 EA	\$11,637.27	\$256,019.94
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	140.00 EA	\$883.11	\$123,635.40

Lighting Component Total

\$2,803,179.16

SIGNALIZATIONS COMPONENT**Pay Items**

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	5,150.00 LF	\$24.72	\$127,308.00
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	1,850.00 LF	\$36.80	\$68,080.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	7.00 PI	\$14,129.51	\$98,906.57
633-1-122	FIBER OPTIC CABLE, F&I, UG,13-48	3,800.00 LF	\$4.14	\$15,732.00
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24"	120.00 EA	\$1,765.94	\$211,912.80
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	7.00 AS	\$5,547.60	\$38,833.20
639-2-1	ELECTRICAL SERVICE WIRE, F&I	420.00 LF	\$9.73	\$4,086.60
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	2.00 EA	\$2,439.87	\$4,879.74
641-2-80	PREST CNC POLE, REMOVE COMPLETE	18.00 EA	\$8,967.65	\$161,417.70
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	48.00 EA	\$3,316.56	\$159,194.88
649-21-6	STEEL MAST ARM ASSEMBLY, F&I, 50'	1.00 EA	\$72,360.02	\$72,360.02
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	22.00 EA	\$83,513.87	\$1,837,305.14
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	4.00 EA	\$107,091.45	\$428,365.80
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE	4.00 EA	\$6,133.71	\$24,534.84
649-26-5	STEEL MAST ARM ASSEMBLY, REMOVE	7.00 EA	\$11,315.04	\$79,205.28
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	79.00 AS	\$1,624.33	\$128,322.07
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	48.00 AS	\$1,007.13	\$48,342.24
654-2-16	RECT RAPID FLASH BEACON, F&I AC, POLE MT	4.00 AS	\$11,894.95	\$47,579.80

660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$704.50	\$8,454.00
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	25.00 EA	\$469.66	\$11,741.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	136.00 AS	\$1,458.90	\$198,410.40
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, CABINET	7.00 EA	\$33,864.67	\$237,052.69
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, ABOVE G	7.00 EA	\$7,667.63	\$53,673.41
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	48.00 EA	\$401.69	\$19,281.12
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	7.00 AS	\$53,923.41	\$377,463.87
670-5-600	TRAF CNTL ASSEM, REMOVE	8.00 AS	\$990.69	\$7,925.52
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	7.00 EA	\$5,142.97	\$36,000.79
685-1-11	UPS POWER SUPPLY, F&I, LINE INTERACTIVE	7.00 EA	\$6,223.95	\$43,567.65
700-5-21	INTERNAL ILLUM SIGN, F&I OM, UP TO 12 SF	27.00 EA	\$4,468.65	\$120,653.55
Signalizations Component Total				\$4,670,591.18

INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
660-6-121	VEHICLE DETECTION SYSTEM- AVI B,F&I, CAB	2.00 EA	\$2,446.14	\$4,892.28
660-6-122	VEHICLE DETECTION SYSTEM- AVI B,F&I, ABO	2.00 EA	\$12,744.18	\$25,488.36
Intelligent Traffic System (ITS) Component Total				\$30,380.64

LANDSCAPING COMPONENT

Landscaping Lump Sum Cost Total	\$480,000.00
Landscaping Component Total	\$480,000.00

BRIDGES COMPONENT

Bridge Type: Overpass Bridge

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
415-1-9	REINF STEEL- APPROACH SLABS	52,500.00 LB	\$1.38	\$72,450.00
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	32,106.00 SF	\$69.54	\$2,232,651.24
400-2-10	CONC CLASS II, APPROACH SLABS	300.00 CY	\$867.84	\$260,352.00

Bridge No. 1 Type=OPB

Length=196 FT Width=135 FT

Bridge Basic Cost based on Factored Cost \$120.00 SF \$3,175,200.00

Bridge Final Cost Per SF \$132.58

Bridges Component Total	\$5,740,653.24
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RETAINING WALLS COMPONENT

Pay Items				
Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	3,360.00 SF	\$56.99	\$191,486.40
Retaining Walls Component Total				\$191,486.40

FDOT Long Range Estimating System - Production

R4: Project Details Composite Report

By Component

Letting Date: 01/2099

Project Manager: JTG

\$138,886,148.27

\$99,702,585.89

10.00	\$9,970,258.59
10.00	\$10,967,284.45

\$120,640,128.93

\$150,000.00

\$138,886,148.27