Welcome

PUBLIC INFORMATION OPEN HOUSE

SR20
IMPROVEMENTS
CANTON TO CUMMING

GDOT Project #'s:
STP00-0002-00(862) | STP00-0003-00(681) | STP00-0003-00(682)

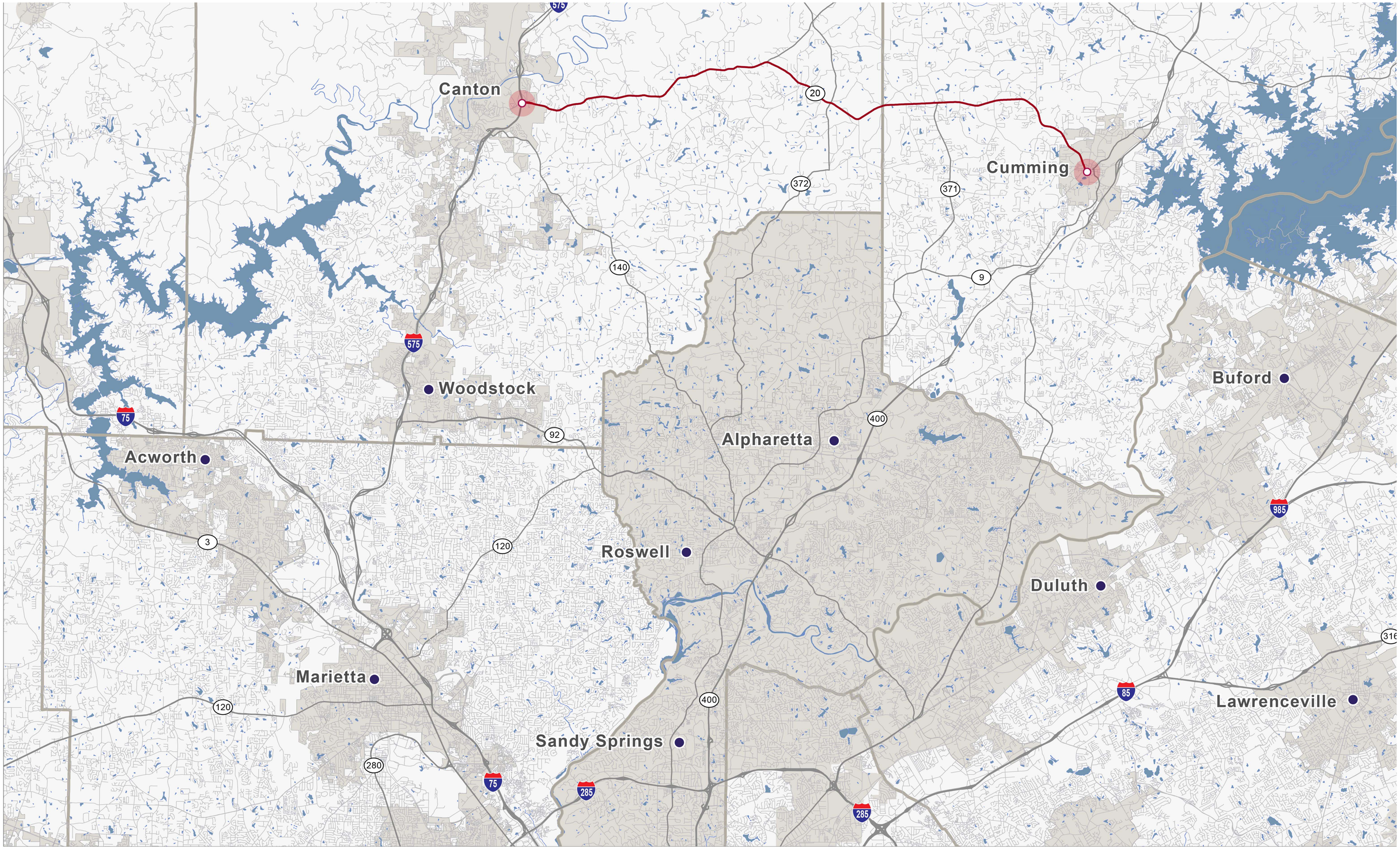
P.I. #'s: ***0002862 | 0003681 | 0003682***

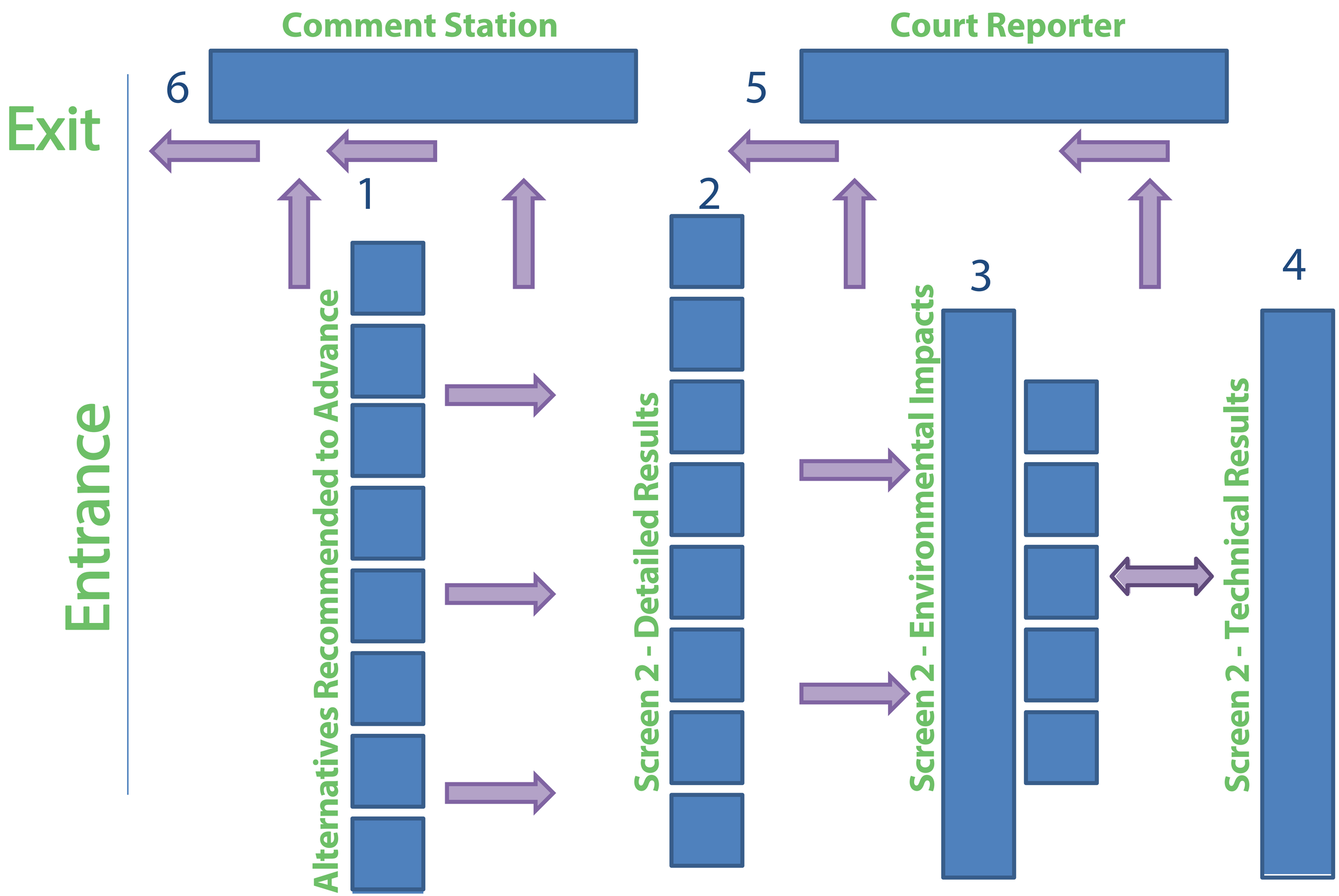
Cherokee and Forsyth Counties

5:00 PM TO 7:00 PM

Georgia Department of Transportation

Where do you live and work?





Room Layout - General

SR20
IMPROVEMENTS
CANTON TO CUMMING

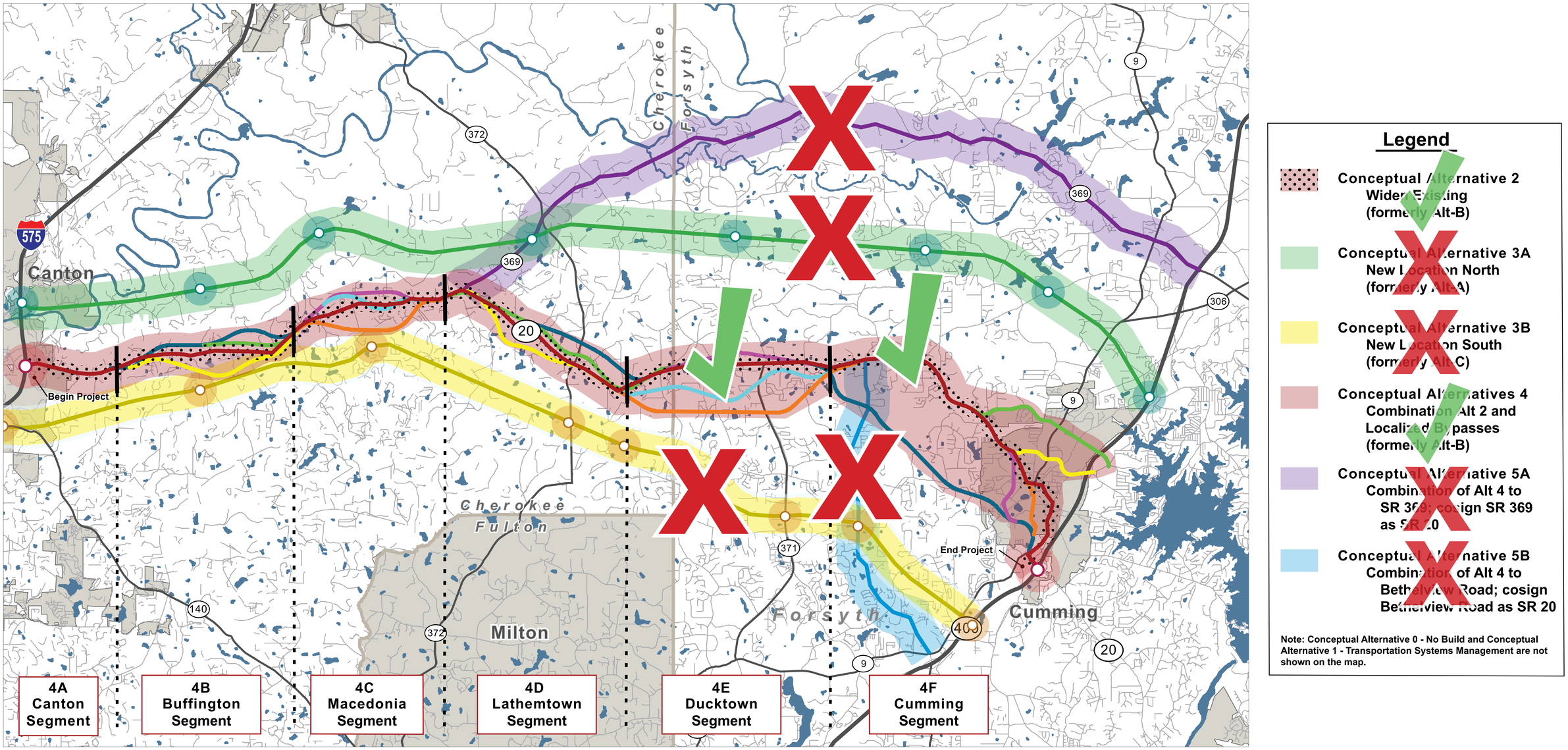
STATION 1

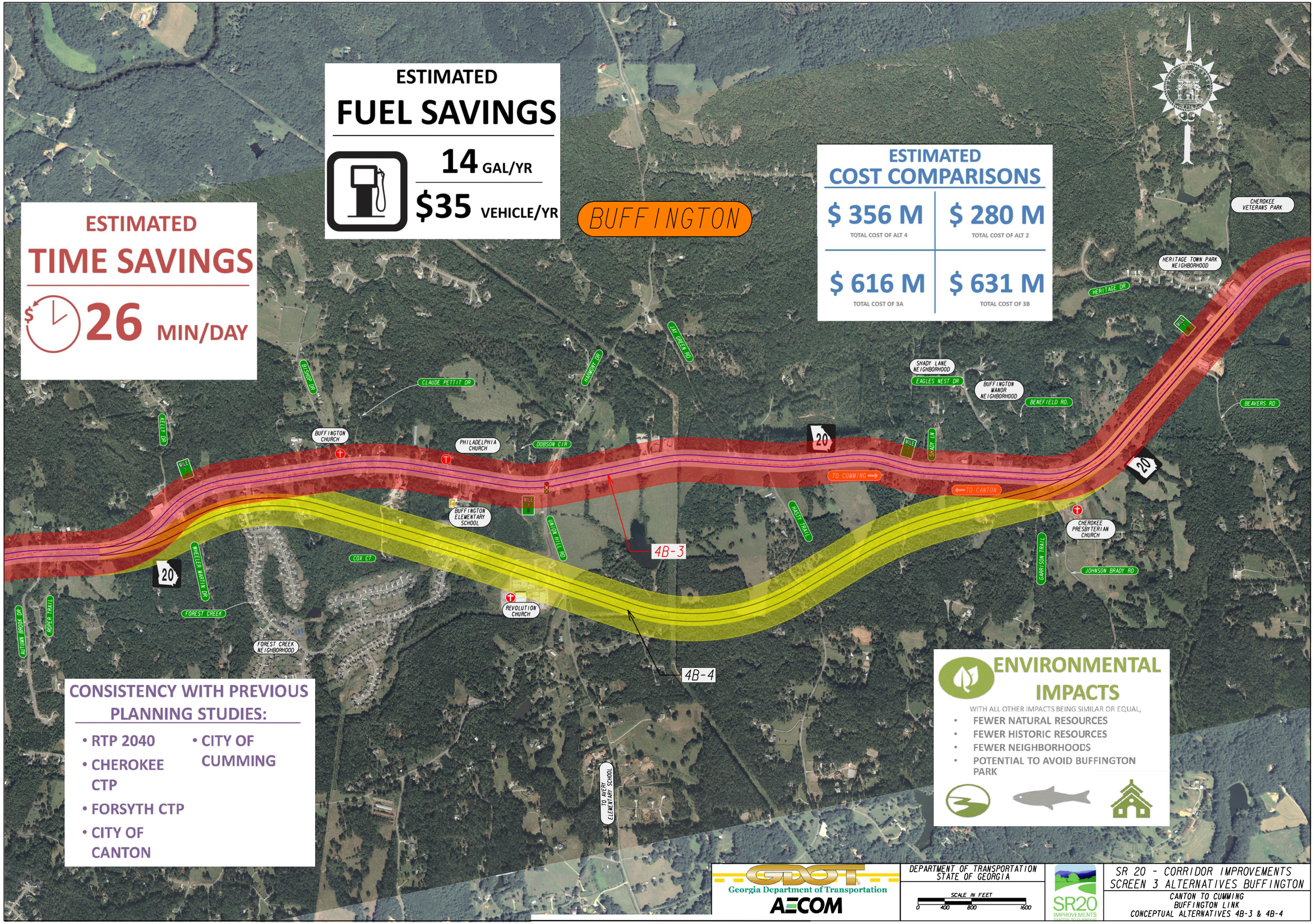
Screen 2 - Current Phase

Purpose of Screen 2: To reduce the number of alternatives to a "*Reasonable Range of Alternatives*" to take to the next level of design and analysis.

STEP	TASK	SCHEDULE
1	Develop Alternatives	**Complete** (Fall 2013)
2	Present Alternatives and Evaluation Approach to Public	**Complete** (PIOHs Dec 2013)
3	Evaluate Alternatives	**Complete** (2014 - 2015)
4	Screen 2 Recommendations for Agency and Public Comments	**Now** - Sept 28
5	Review / Summarize Agency and Public Comments	Fall 2015
6	Update Screen 2 with Agency and Public Comments	Fall / Winter 2015 / 2016
7	Finalize Report and Identify Reasonable Range of Alternatives	Winter 2015 / 2016

Screen 2 - Recommendations - Corridor Wide





ESTIMATED FUEL SAVINGS

14 GAL/YR

$35 VEHICLE/YR

ESTIMATED TIME SAVINGS

26 MIN/DAY

ESTIMATED COST COMPARISONS

$ 356 M TOTAL COST OF ALT 4	**$ 280 M** TOTAL COST OF ALT 2
$ 616 M TOTAL COST OF 3A	**$ 631 M** TOTAL COST OF 3B

CONSISTENCY WITH PREVIOUS PLANNING STUDIES:

- RTP 2040
- CHEROKEE CTP
- FORSYTH CTP
- CITY OF CANTON
- CITY OF CUMMING

ENVIRONMENTAL IMPACTS

WITH ALL OTHER IMPACTS BEING SIMILAR OR EQUAL,

- FEWER NATURAL RESOURCES
- FEWER HISTORIC RESOURCES
- FEWER NEIGHBORHOODS
- POTENTIAL TO AVOID BUFFINGTON PARK

GDOT Georgia Department of Transportation

AECOM

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SCALE IN FEET
0 400 800 1600

SR20 IMPROVEMENTS

SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 3 ALTERNATIVES BUFFINGTON

CANTON TO CUMMING
BUFFINGTON LINK
CONCEPTUAL ALTERNATIVES 4B-3 & 4B-4

MACEDONIA

ESTIMATED TIME SAVINGS

11 MIN/DAY

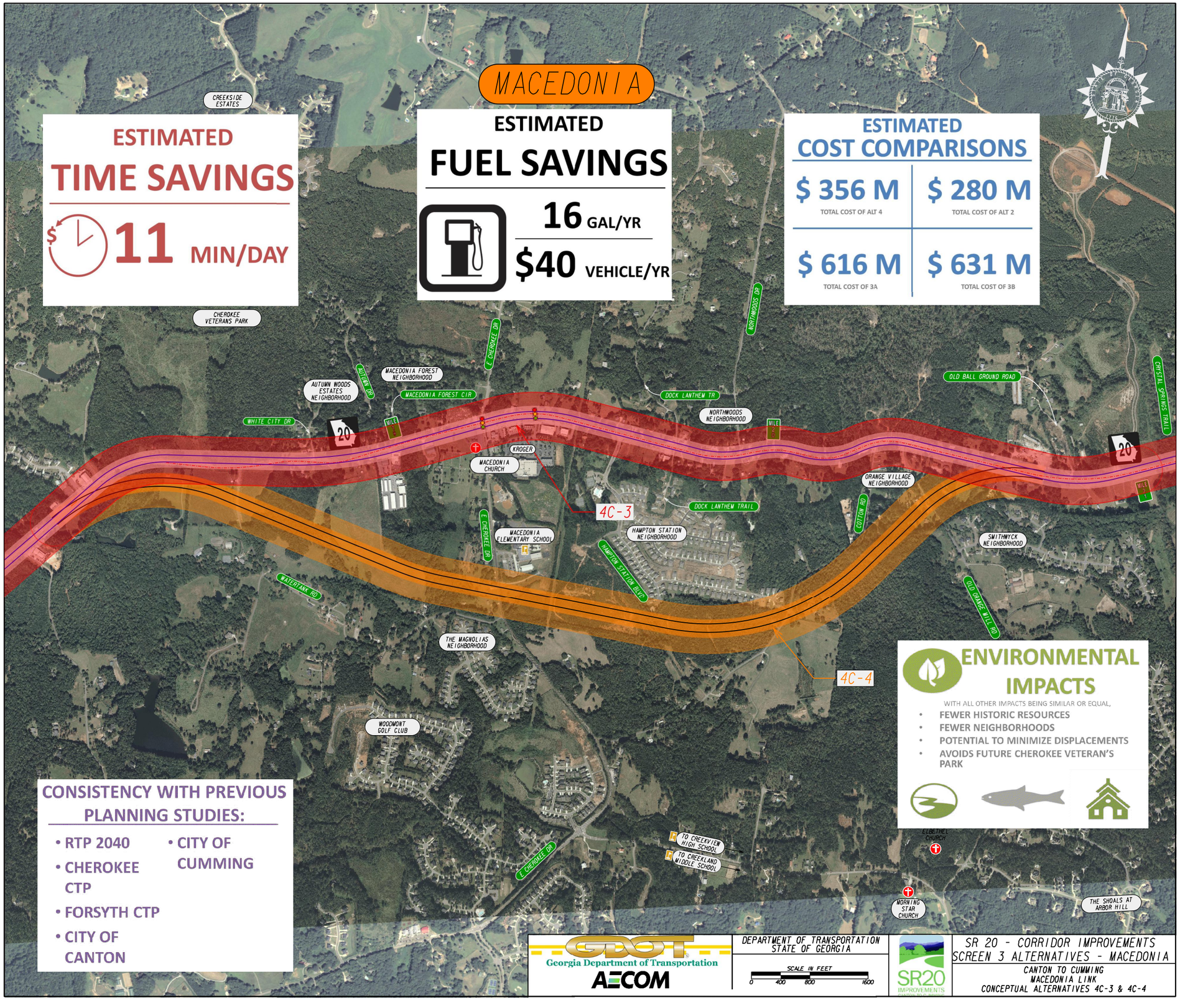
ESTIMATED FUEL SAVINGS

16 GAL/YR

$40 VEHICLE/YR

ESTIMATED COST COMPARISONS

$ 356 M TOTAL COST OF ALT 4	$ 280 M TOTAL COST OF ALT 2
$ 616 M TOTAL COST OF 3A	$ 631 M TOTAL COST OF 3B



ENVIRONMENTAL IMPACTS

WITH ALL OTHER IMPACTS BEING SIMILAR OR EQUAL,

- FEWER HISTORIC RESOURCES
- FEWER NEIGHBORHOODS
- POTENTIAL TO MINIMIZE DISPLACEMENTS
- AVOIDS FUTURE CHEROKEE VETERAN'S PARK

CONSISTENCY WITH PREVIOUS PLANNING STUDIES:

- RTP 2040
- CHEROKEE CTP
- FORSYTH CTP
- CITY OF CANTON
- CITY OF CUMMING

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STATE OF GEORGIA

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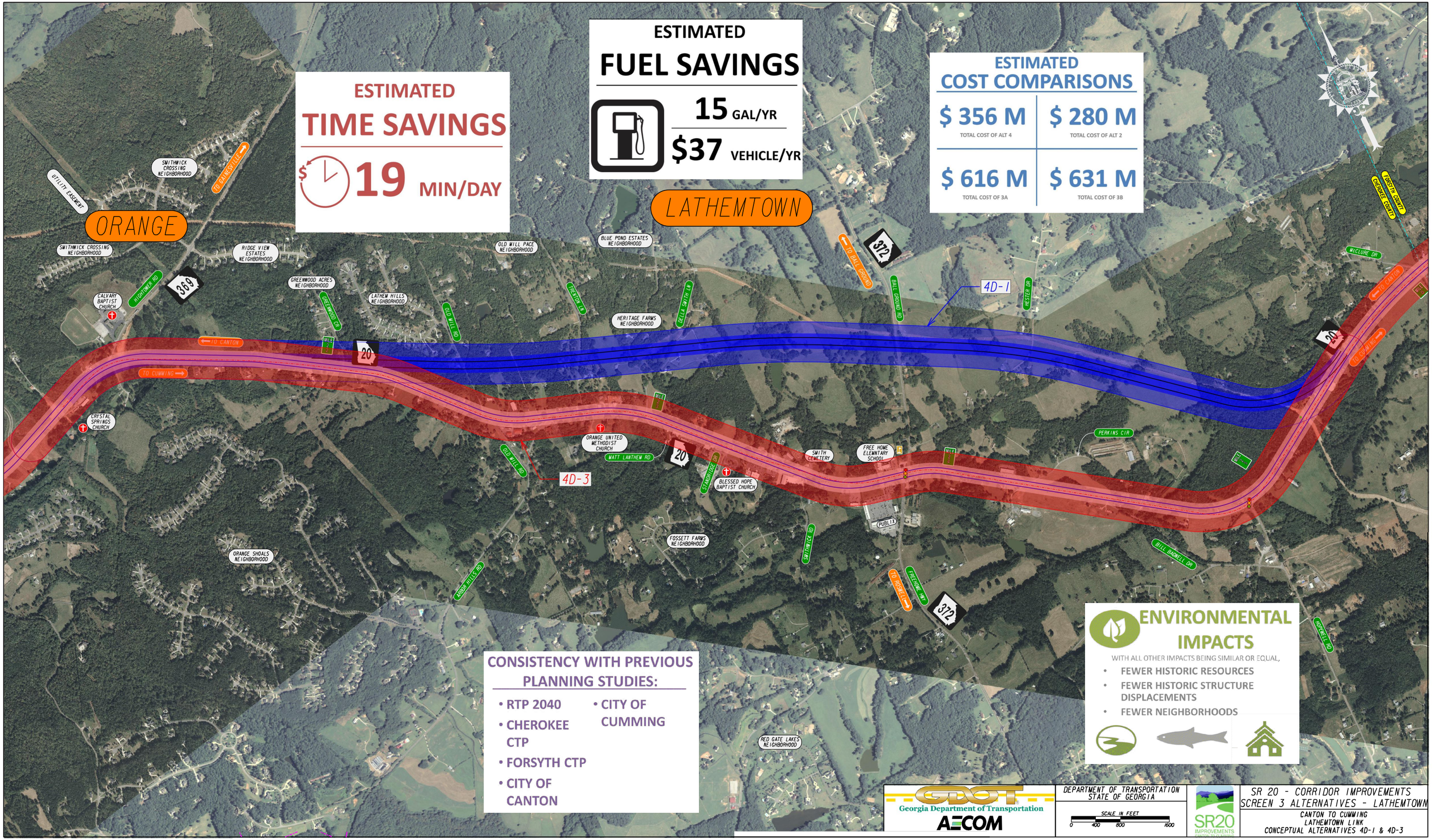
SR20 IMPROVEMENTS

SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 3 ALTERNATIVES - MACEDONIA

CANTON TO CUMMING
MACEDONIA LINK
CONCEPTUAL ALTERNATIVES 4C-3 & 4C-4



ESTIMATED TIME SAVINGS

19 MIN/DAY

ESTIMATED FUEL SAVINGS

15 GAL/YR

$37 VEHICLE/YR

ESTIMATED COST COMPARISONS

$ 356 M TOTAL COST OF ALT 4	$ 280 M TOTAL COST OF ALT 2
$ 616 M TOTAL COST OF 3A	$ 631 M TOTAL COST OF 3B

CONSISTENCY WITH PREVIOUS PLANNING STUDIES:

- RTP 2040
- CHEROKEE CTP
- FORSYTH CTP
- CITY OF CANTON
- CITY OF CUMMING

ENVIRONMENTAL IMPACTS

WITH ALL OTHER IMPACTS BEING SIMILAR OR EQUAL,

- FEWER HISTORIC RESOURCES
- FEWER HISTORIC STRUCTURE DISPLACEMENTS
- FEWER NEIGHBORHOODS

Georgia Department of Transportation

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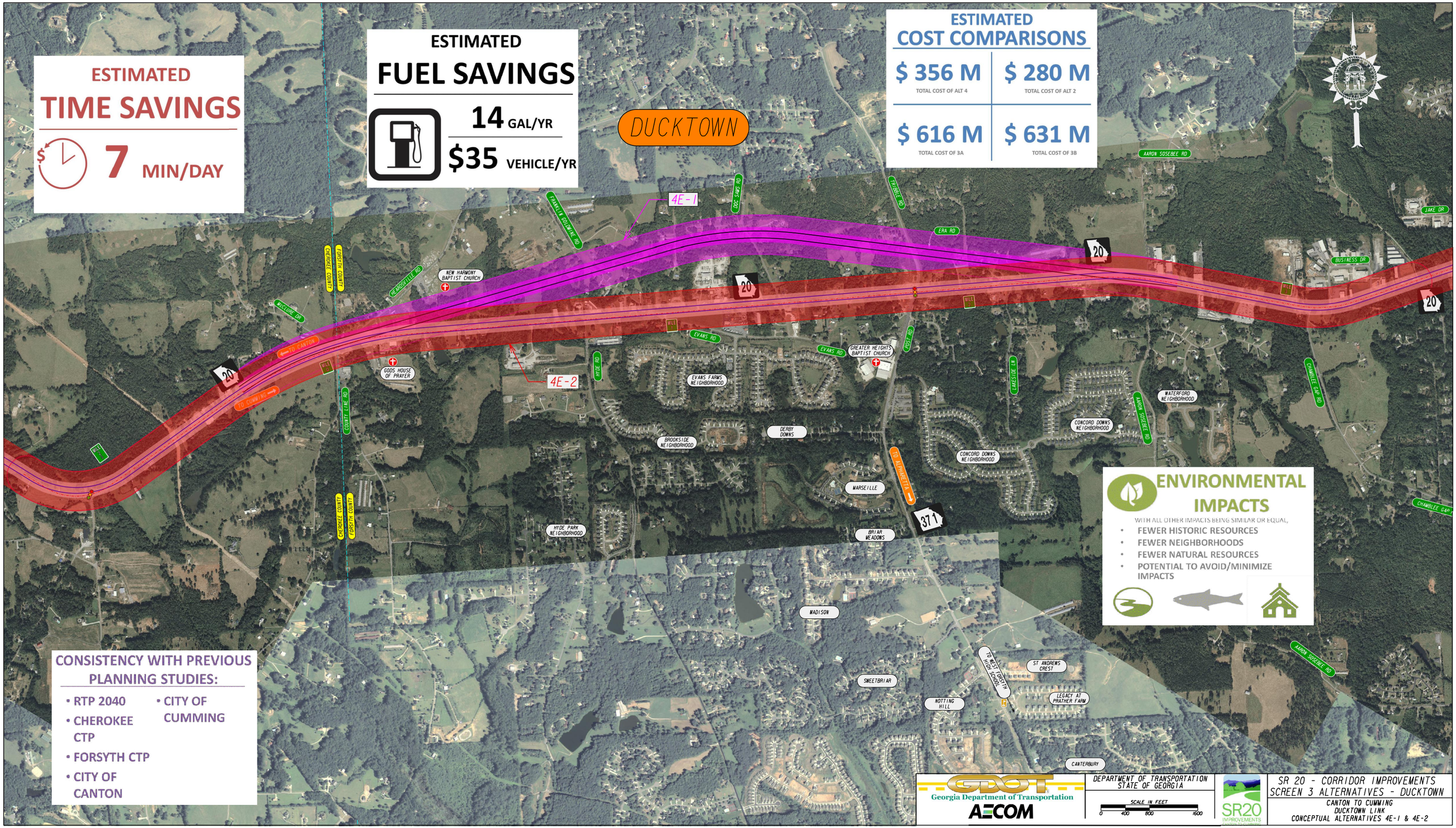
STATE OF GEORGIA

SCALE IN FEET
0 400 800 1600

SR20 IMPROVEMENTS

SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 3 ALTERNATIVES - LATHEMTOWN

CANTON TO CUMMING
LATHEMTOWN LINK
CONCEPTUAL ALTERNATIVES 4D-1 & 4D-3



ESTIMATED TIME SAVINGS

7 MIN/DAY

ESTIMATED FUEL SAVINGS

14 GAL/YR

$35 VEHICLE/YR

ESTIMATED COST COMPARISONS

$ 356 M TOTAL COST OF ALT 4	**$ 280 M** TOTAL COST OF ALT 2
$ 616 M TOTAL COST OF 3A	**$ 631 M** TOTAL COST OF 3B

ENVIRONMENTAL IMPACTS

WITH ALL OTHER IMPACTS BEING SIMILAR OR EQUAL,

- FEWER HISTORIC RESOURCES
- FEWER NEIGHBORHOODS
- FEWER NATURAL RESOURCES
- POTENTIAL TO AVOID/MINIMIZE IMPACTS

CONSISTENCY WITH PREVIOUS PLANNING STUDIES:

- RTP 2040
- CHEROKEE CTP
- FORSYTH CTP
- CITY OF CANTON
- CITY OF CUMMING

Georgia Department of Transportation

AECOM

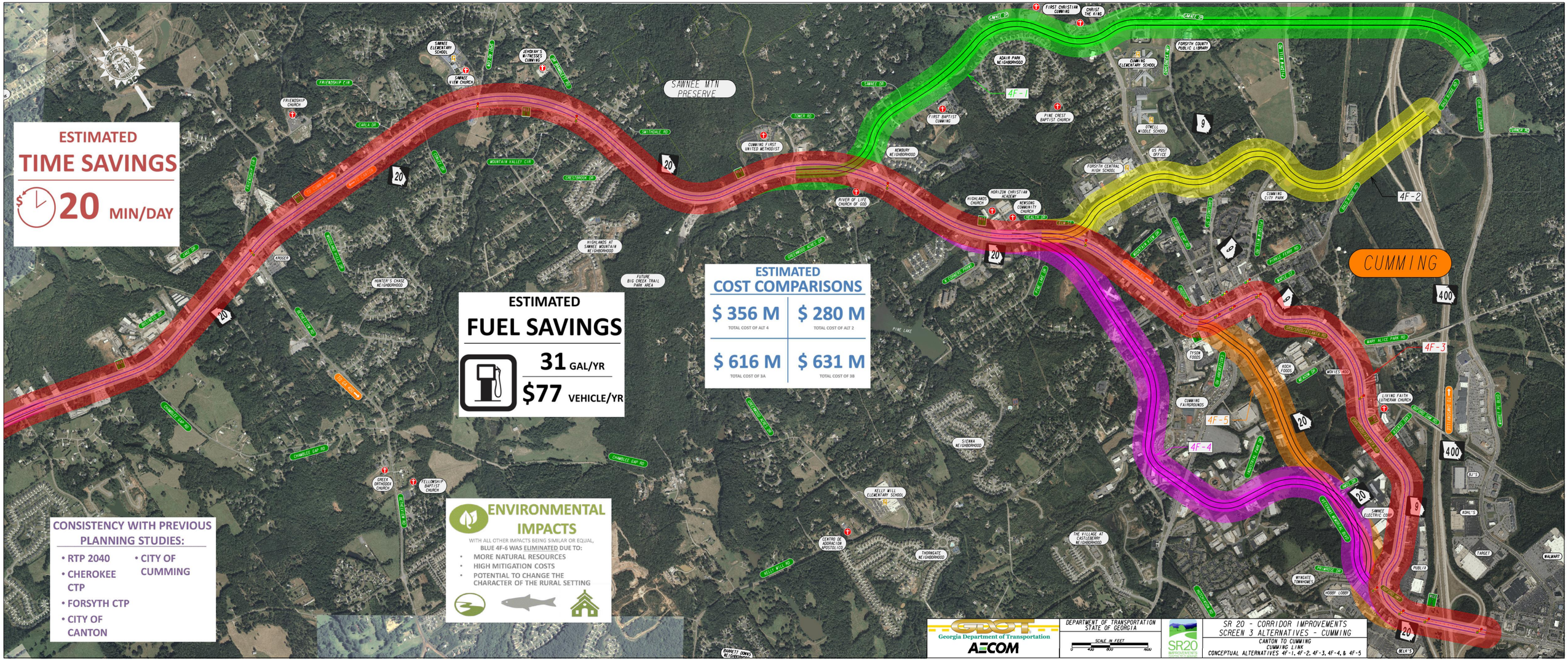
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SCALE IN FEET
0 400 800 1600

SR20 IMPROVEMENTS

SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 3 ALTERNATIVES - DUCKTOWN

CANTON TO CUMMING
DUCKTOWN LINK
CONCEPTUAL ALTERNATIVES 4E-1 & 4E-2


ESTIMATED
TIME SAVINGS
20 MIN/DAY
ESTIMATED
FUEL SAVINGS
31 GAL/YR
$77 VEHICLE/YR
ESTIMATED
COST COMPARISONS
$ 356 M
TOTAL COST OF ALT 4
$ 280 M
TOTAL COST OF ALT 2
$ 616 M
TOTAL COST OF 3A
$ 631 M
TOTAL COST OF 3B
ENVIRONMENTAL IMPACTS
WITH ALL OTHER IMPACTS BEING SIMILAR OR EQUAL,
BLUE 4F-6 WAS ELIMINATED DUE TO:
• MORE NATURAL RESOURCES
• HIGH MITIGATION COSTS
• POTENTIAL TO CHANGE THE CHARACTER OF THE RURAL SETTING
CONSISTENCY WITH PREVIOUS PLANNING STUDIES:
• RTP 2040
• CHEROKEE CTP
• FORSYTH CTP
• CITY OF CANTON
• CITY OF CUMMING
SAWNEE MTN PRESERVE
CUMMING
4F-1
4F-2
4F-3
4F-4
4F-5
Georgia Department of Transportation
AECOM
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SCALE IN FEET
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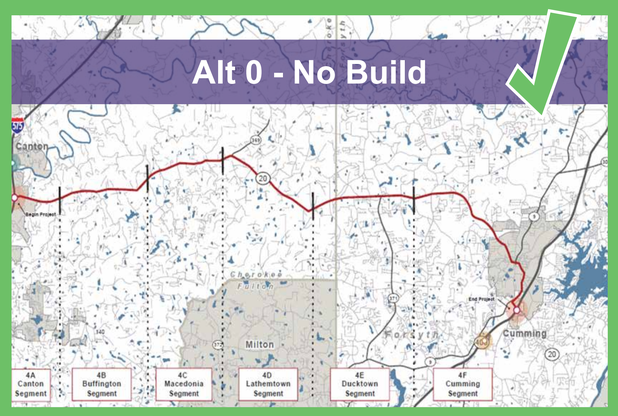
SR20 IMPROVEMENTS
SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 3 ALTERNATIVES - CUMMING
CANTON TO CUMMING
CUMMING LINK
CONCEPTUAL ALTERNATIVES 4F-1, 4F-2, 4F-3, 4F-4, & 4F-5

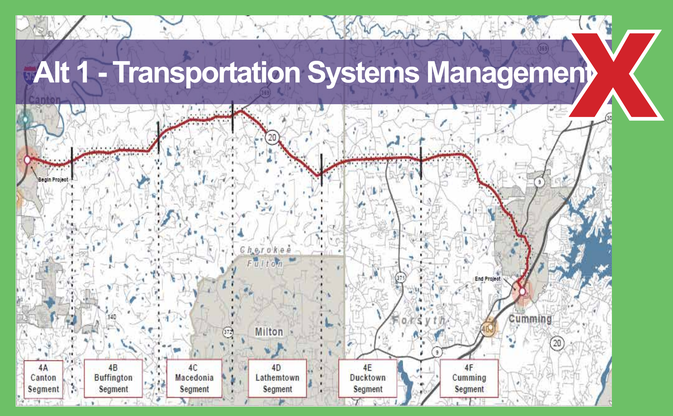
SR20
IMPROVEMENTS
CANTON TO CUMMING

STATION 2

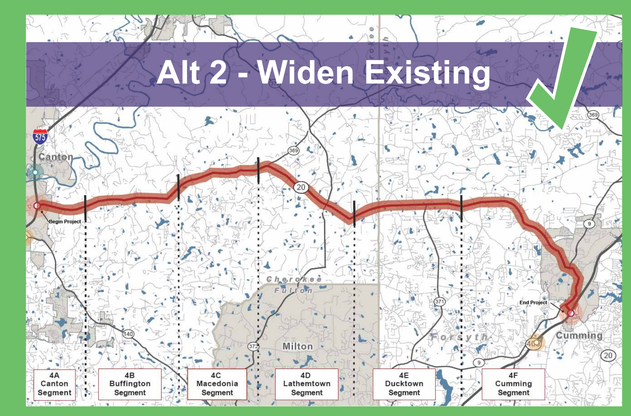
Screen 2 - Corridor Ratings



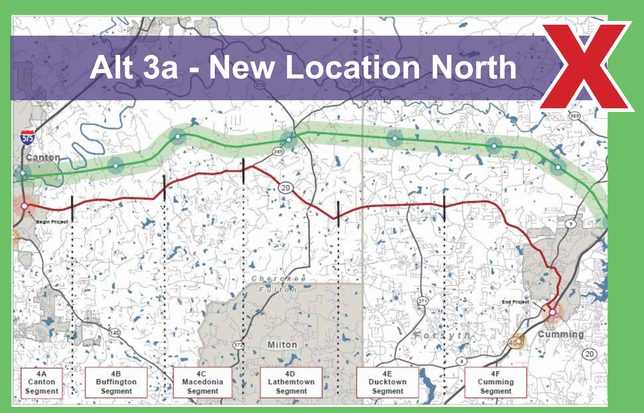
Performance ○ Impacts ● Costs ○



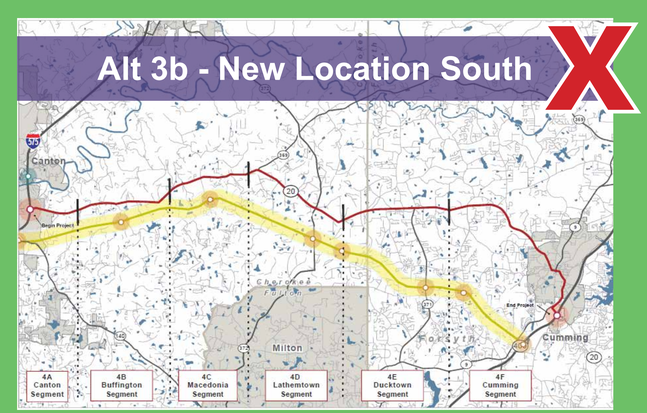
Performance ○ Impacts ● Costs ○



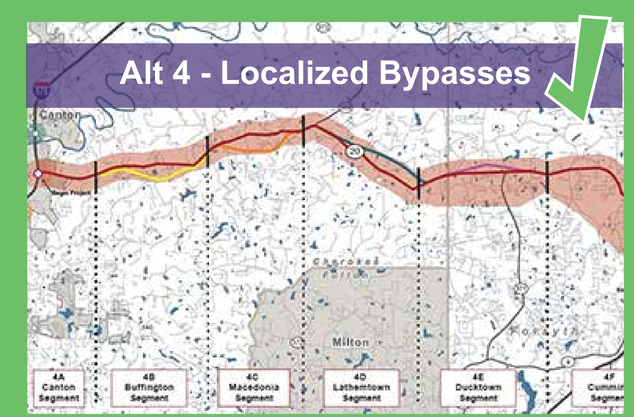
Performance ○ Impacts ◒ Costs ◒



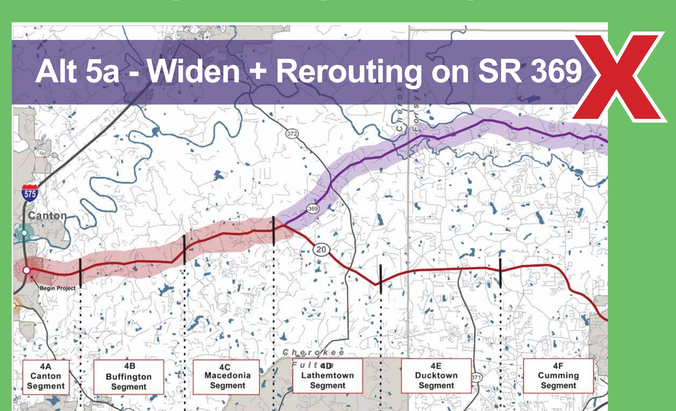
Performance ○ Impacts ◒ Costs ○



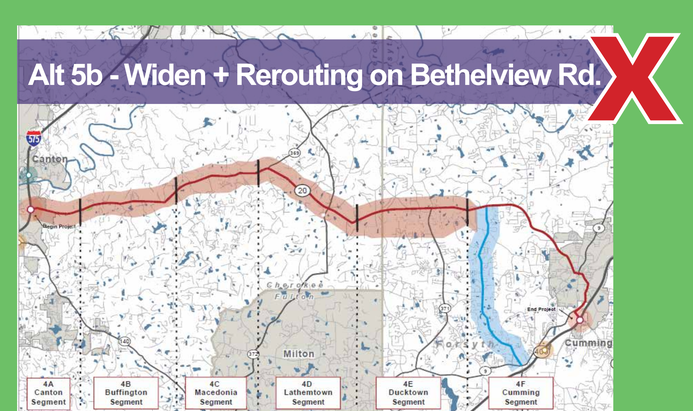
Performance ○ Impacts ◒ Costs ○



Performance ○-◒ Impacts ○-◒ Costs ◒



Performance ○ Impacts ◒ Costs ○



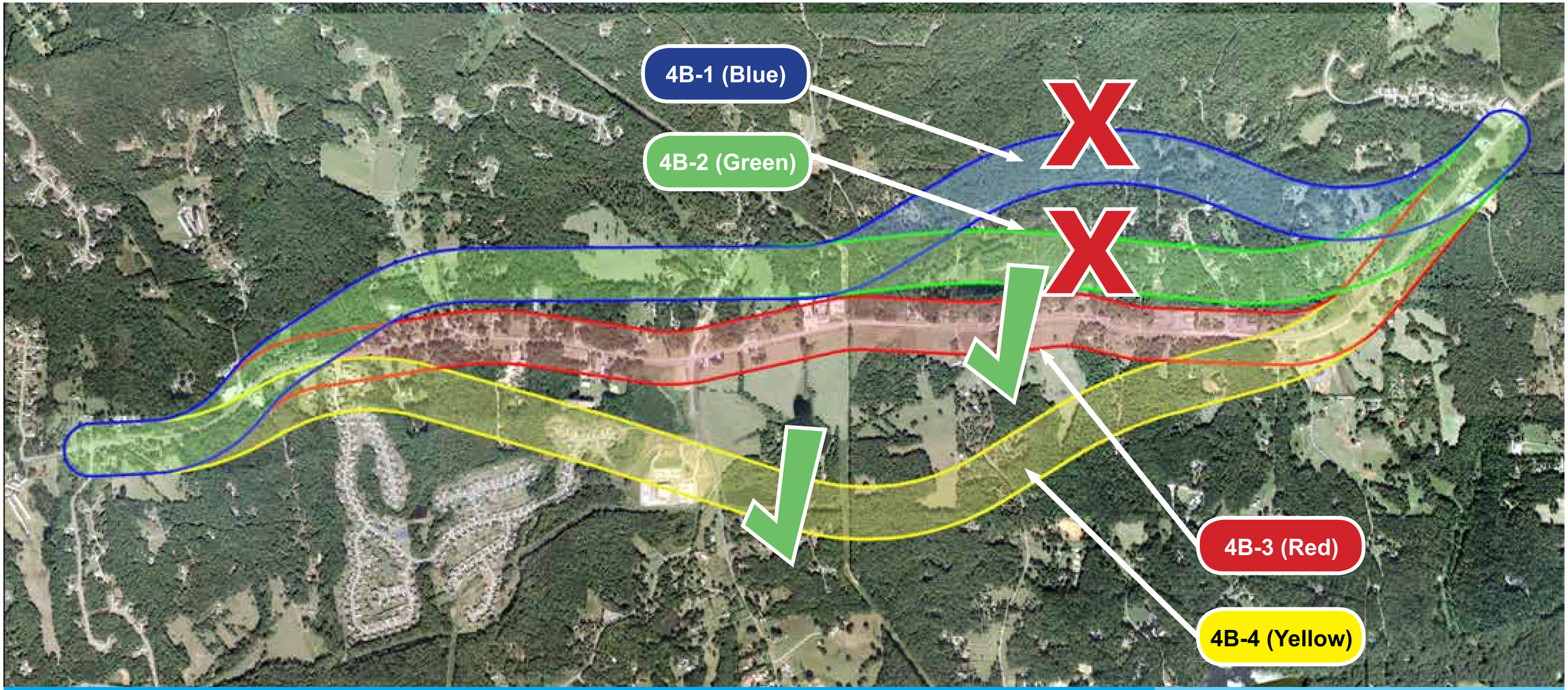
Performance ○ Impacts ◒ Costs ○

● = Exceeds

◒ = Meets

○ = Needs Improvement/Fails

Screen 2 - Alt 4 Ratings - Buffington



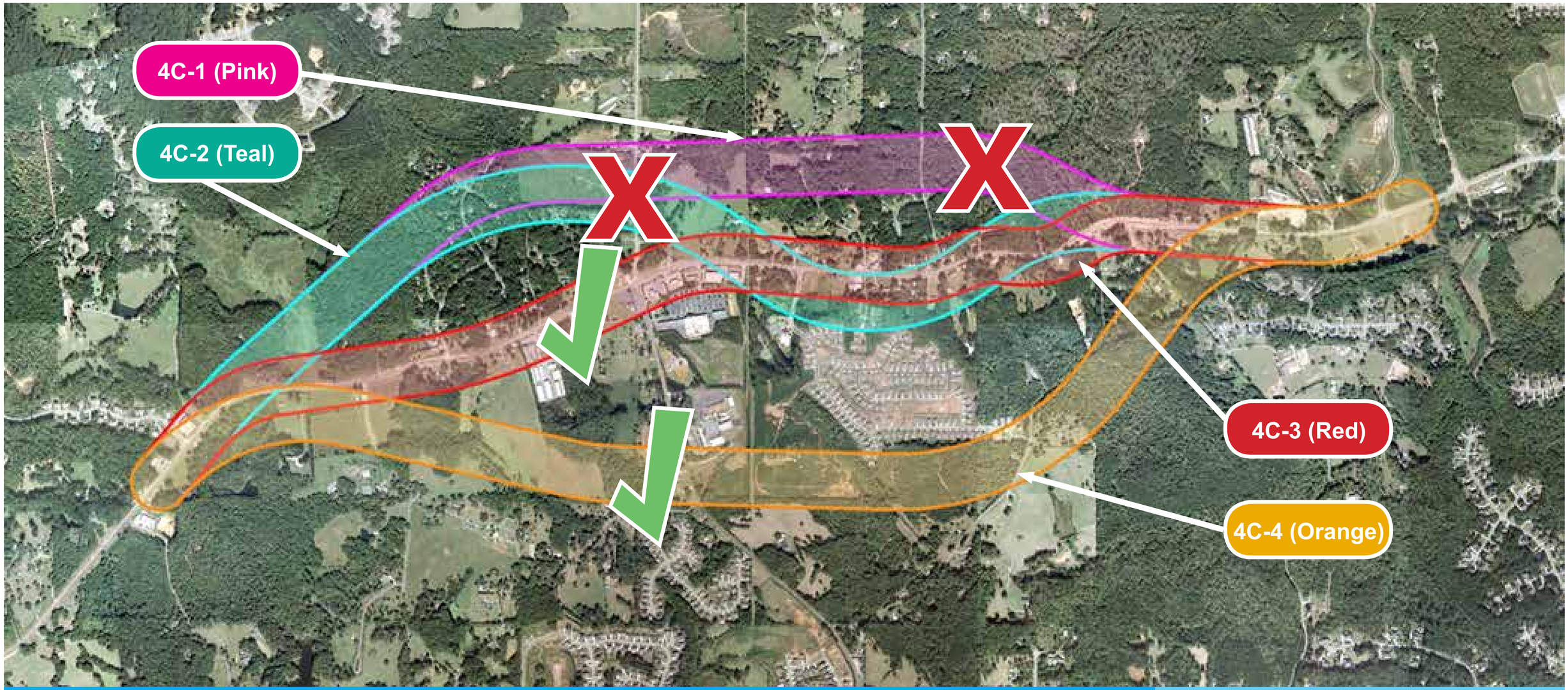
	4B-1 (Blue)	4B-2 (Green)	4B-3 (Red)	4B-4 (Yellow)
PERFORMANCE	◒	◒	◒	◒
IMPACT	○	○	◒	◒
COSTS	◒	◒	◒	◒
	✗	✗	✓	✓

● = Exceeds

◒ = Meets

○ = Needs Improvement/Fails

Screen 2 - Alt 4 Ratings - Macedonia



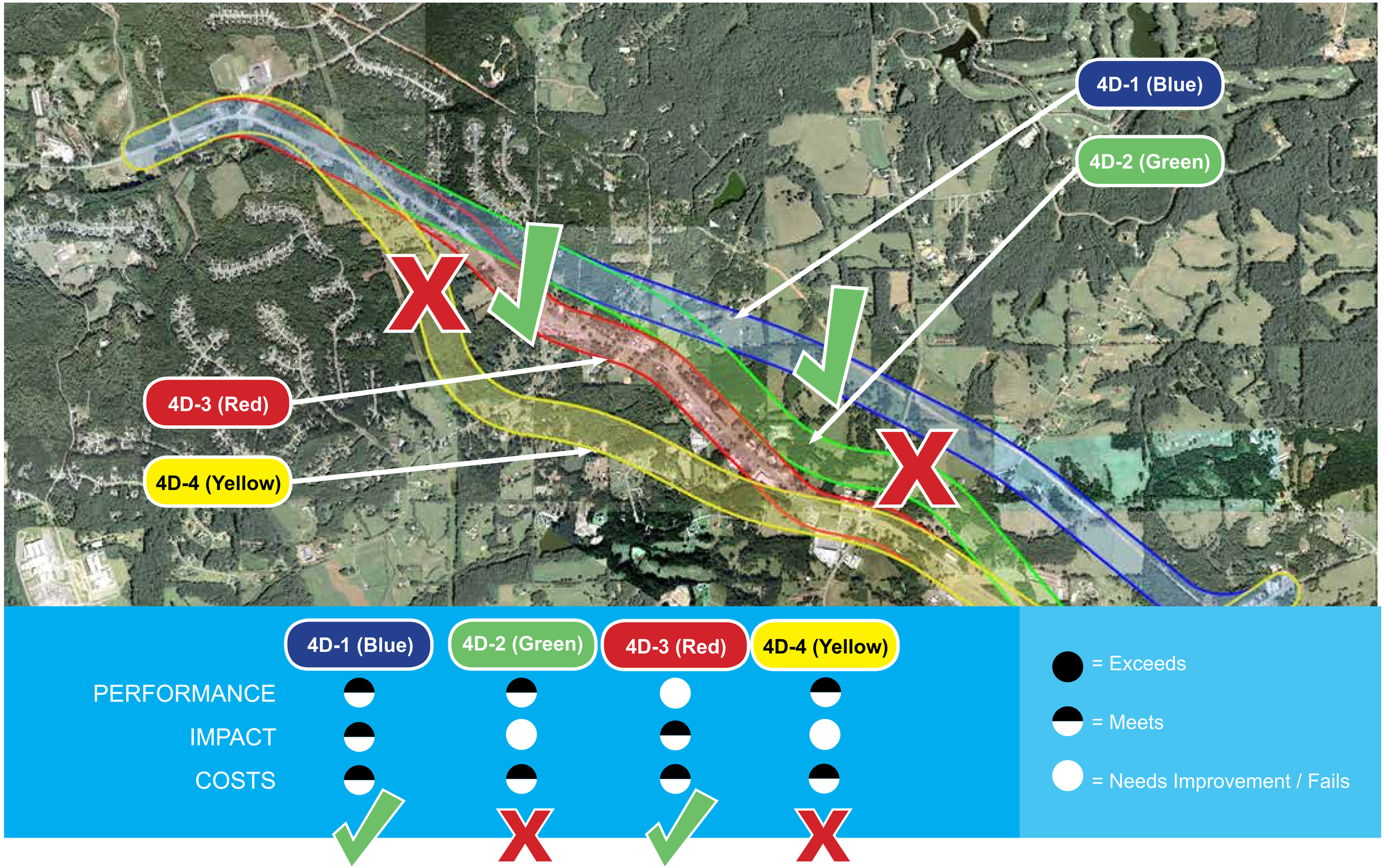
	4C-1 (Pink)	4C-2 (Teal)	4C-3 (Red)	4C-4 (Orange)
PERFORMANCE	○	○	○	○
IMPACT	○	○	◒	◒
COSTS	◒	◒	◒	◒
	✗	✗	✓	✓

● = Exceeds

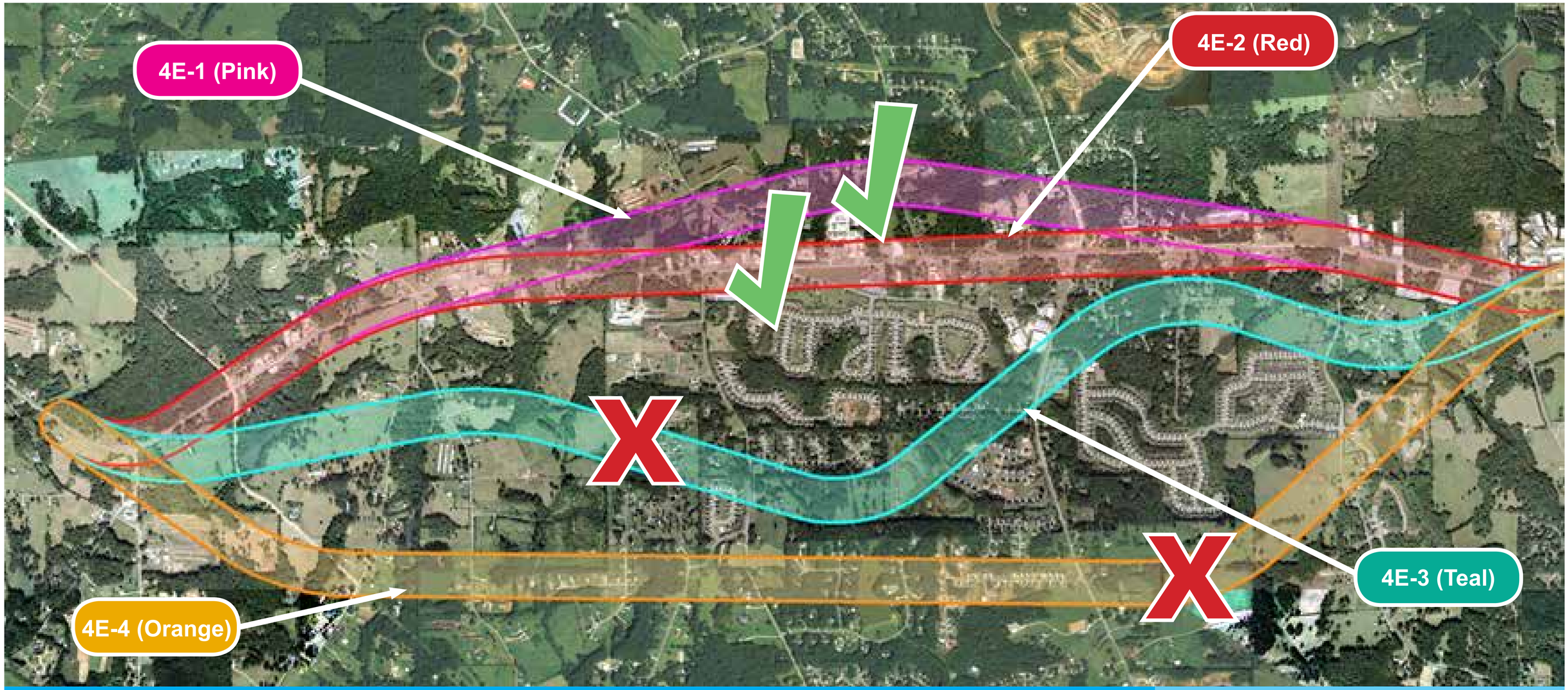
◒ = Meets

○ = Needs Improvement / Fails

Screen 2 - Alt 4 Ratings - Lathemtown



Screen 2 - Alt 4 Ratings - Ducktown



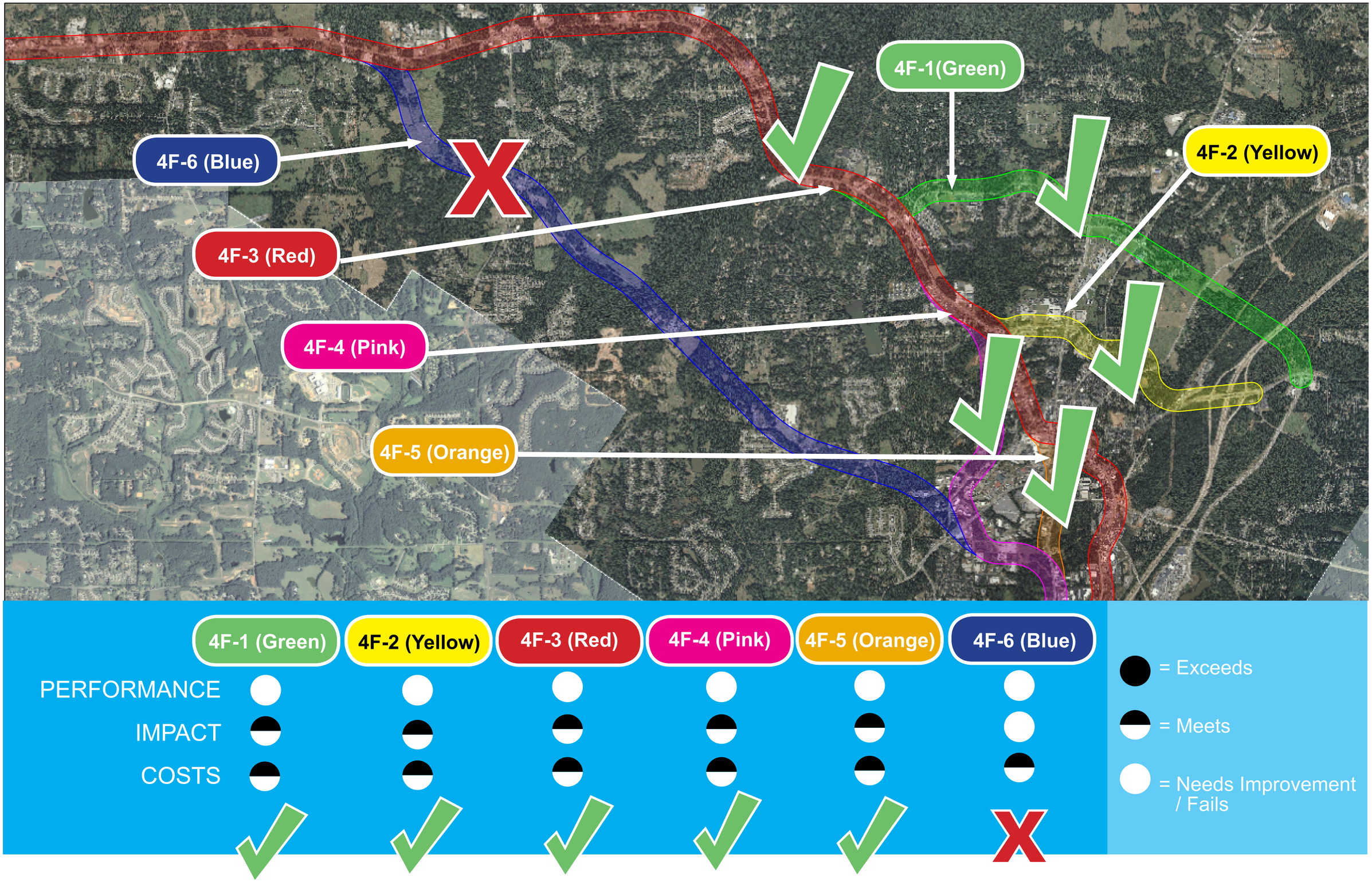
	4E-1 (Pink)	4E-2 (Red)	4E-3 (Teal)	4E-4 (Orange)
PERFORMANCE	Meets	Meets	Meets	Meets
IMPACT	Meets	Meets	Needs Improvement / Fails	Needs Improvement / Fails
COSTS	Meets	Meets	Meets	Meets
	✓	✓	✗	✗

● = Exceeds

◒ = Meets

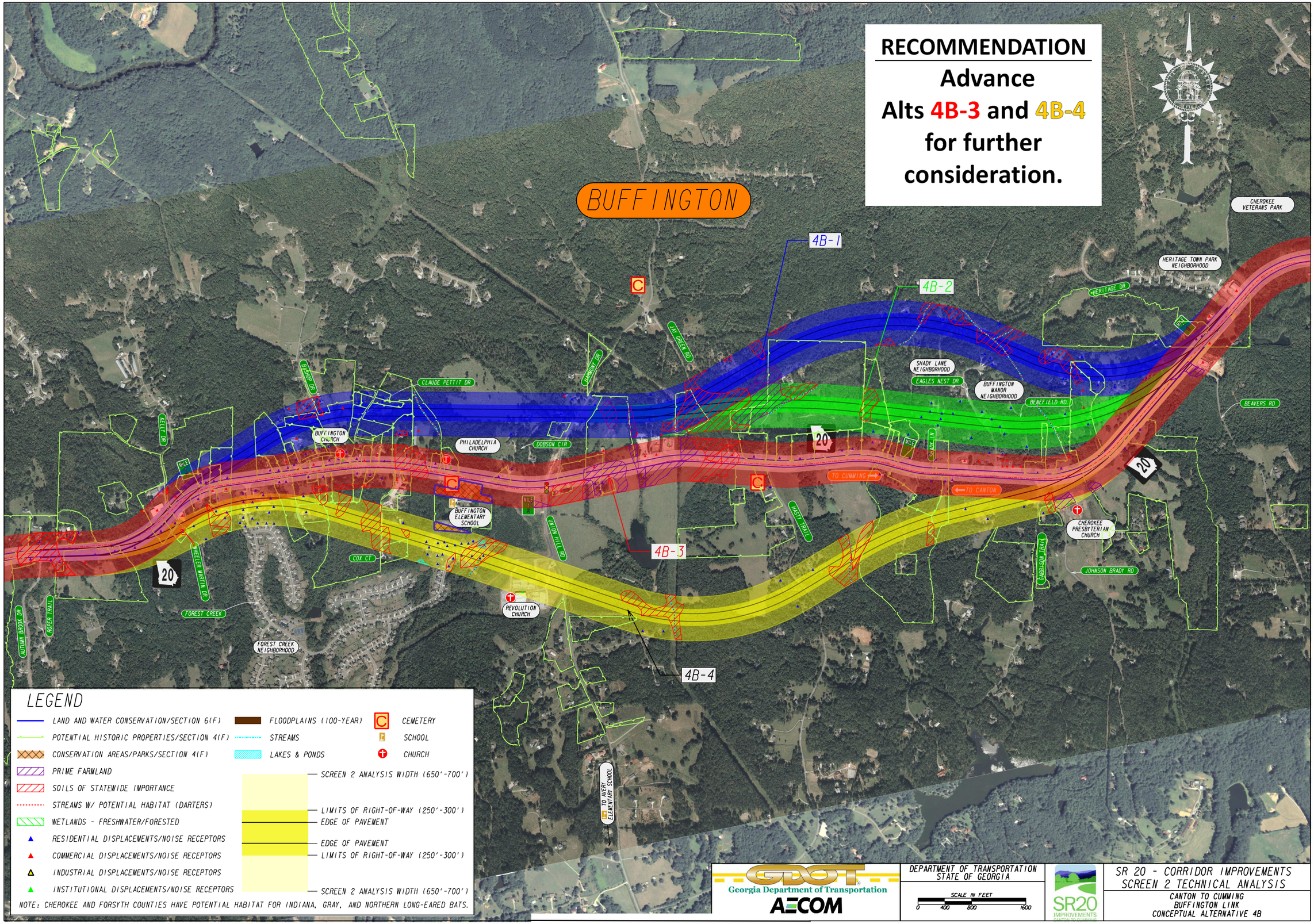
○ = Needs Improvement / Fails

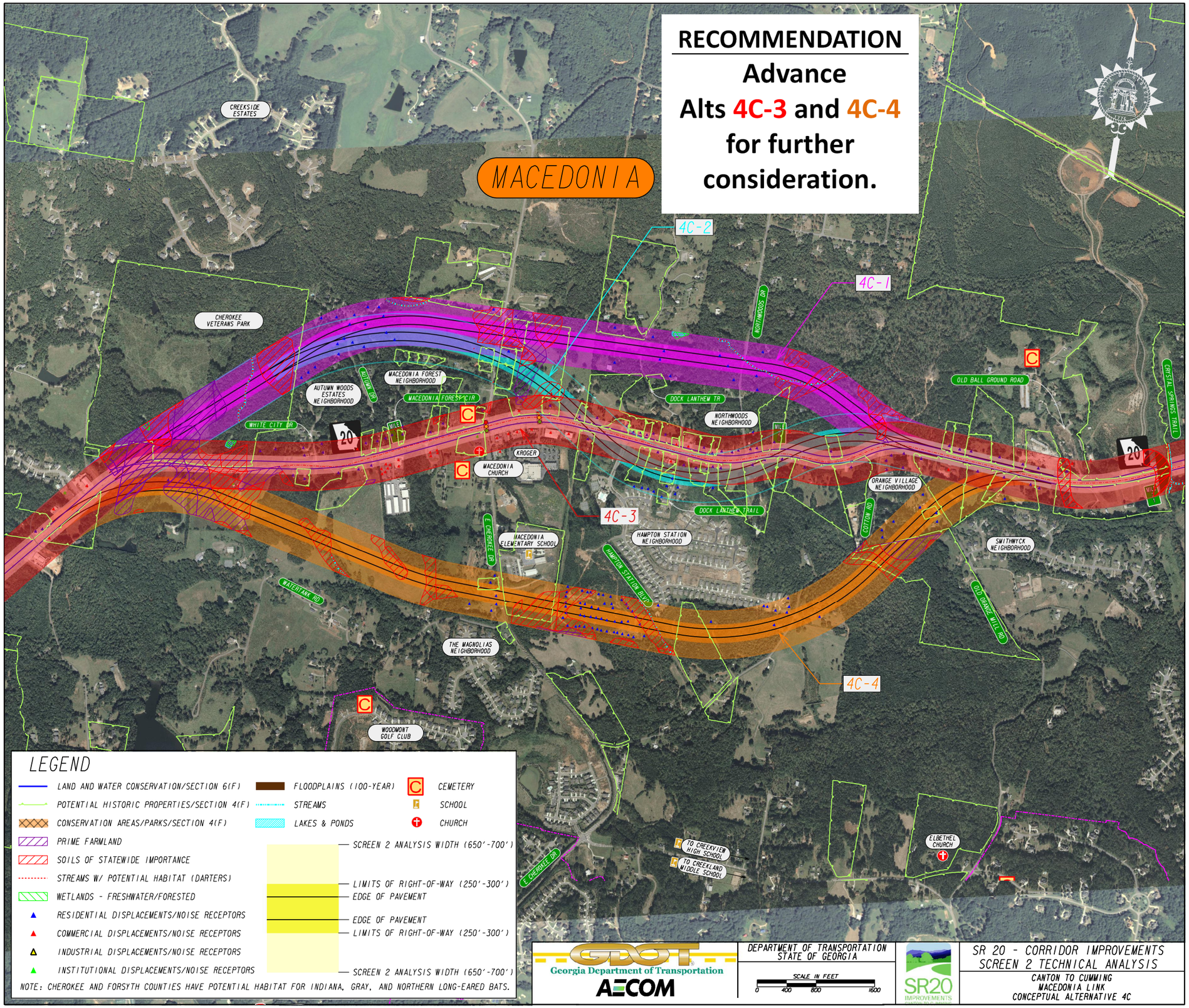
Screen 2 - Alt 4 Ratings - Cumming



SR20
IMPROVEMENTS
CANTON TO CUMMING

STATION 3


RECOMMENDATION
Advance
Alts 4B-3 and 4B-4
for further
consideration.
BUFFINGTON
4B-1
4B-2
4B-3
4B-4
CHEROKEE VETERANS PARK
HERITAGE TOWN PARK NEIGHBORHOOD
HERITAGE DR
SHADY LANE NEIGHBORHOOD
EAGLES NEST DR
BUFFINGTON MANOR NEIGHBORHOOD
BENEFIELD RD
BEAVERS RD
CLAUDE PETTIT DR
BRAND DR
CAMMON DR
JAY GREEN RD
KELLY DR
BUFFINGTON CHURCH
PHILADELPHIA CHURCH
DOBSON CIR
BUFFINGTON ELEMENTARY SCHOOL
TO CUMMING
TO CANTON
EAST TRAIL
CHEROKEE PRESBYTERIAN CHURCH
JOHNSON TRAIL
JOHNSON BRADY RD
COX CT
WHEELER MARTIN DR
FOREST CREEK
FOREST CREEK NEIGHBORHOOD
REVOLUTION CHURCH
TO AVERY ELEMENTARY SCHOOL
LEGEND
LAND AND WATER CONSERVATION/SECTION 6(F)
POTENTIAL HISTORIC PROPERTIES/SECTION 4(F)
CONSERVATION AREAS/PARKS/SECTION 4(F)
PRIME FARMLAND
SOILS OF STATEWIDE IMPORTANCE
STREAMS W/ POTENTIAL HABITAT (DARTERS)
WETLANDS - FRESHWATER/FORESTED
RESIDENTIAL DISPLACEMENTS/NOISE RECEPTORS
COMMERCIAL DISPLACEMENTS/NOISE RECEPTORS
INDUSTRIAL DISPLACEMENTS/NOISE RECEPTORS
INSTITUTIONAL DISPLACEMENTS/NOISE RECEPTORS
FLOODPLAINS (100-YEAR)
STREAMS
LAKES & PONDS
CEMETERY
SCHOOL
CHURCH
SCREEN 2 ANALYSIS WIDTH (650'-700')
LIMITS OF RIGHT-OF-WAY (250'-300')
EDGE OF PAVEMENT
EDGE OF PAVEMENT
LIMITS OF RIGHT-OF-WAY (250'-300')
SCREEN 2 ANALYSIS WIDTH (650'-700')
NOTE: CHEROKEE AND FORSYTH COUNTIES HAVE POTENTIAL HABITAT FOR INDIANA, GRAY, AND NORTHERN LONG-EARED BATS.
GDOT
Georgia Department of Transportation
AECOM
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SCALE IN FEET
0 400 800 1600
SR20 IMPROVEMENTS
SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 2 TECHNICAL ANALYSIS
CANTON TO CUMMING
BUFFINGTON LINK
CONCEPTUAL ALTERNATIVE 4B


RECOMMENDATION
Advance
Alts 4C-3 and 4C-4
for further
consideration.
MACEDONIA
4C-2
4C-1
4C-3
4C-4
CREEKSIDE ESTATES
CHEROKEE VETERANS PARK
AUTUMN WOODS ESTATES NEIGHBORHOOD
MACEDONIA FOREST NEIGHBORHOOD
MACEDONIA FOREST CIR
AUTUMN DR
WHITE CITY DR
KROGER
MACEDONIA CHURCH
MACEDONIA ELEMENTARY SCHOOL
E CHEROKEE DR
WATERFALL RD
THE MAGNOLIAS NEIGHBORHOOD
WOODMONT GOLF CLUB
HAMPTON STATION NEIGHBORHOOD
HAMPTON STATION BLVD
DOCK LANTHEM TR
NORTHWOODS NEIGHBORHOOD
NORTHWOODS DR
DOCK LANTHEM TRAIL
ORANGE VILLAGE NEIGHBORHOOD
COTTON RD
OLD BALL GROUND ROAD
CRYSTAL SPRINGS TRAIL
SMITHWYCK NEIGHBORHOOD
OLD ORANGE MILL RD
ELBETHEL CHURCH
TO CREEKVIEW HIGH SCHOOL
TO CREEKLAND MIDDLE SCHOOL
20
LEGEND
LAND AND WATER CONSERVATION/SECTION 6(F)
POTENTIAL HISTORIC PROPERTIES/SECTION 4(F)
CONSERVATION AREAS/PARKS/SECTION 4(F)
PRIME FARMLAND
SOILS OF STATEWIDE IMPORTANCE
STREAMS W/ POTENTIAL HABITAT (DARTERS)
WETLANDS - FRESHWATER/FORESTED
RESIDENTIAL DISPLACEMENTS/NOISE RECEPTORS
COMMERCIAL DISPLACEMENTS/NOISE RECEPTORS
INDUSTRIAL DISPLACEMENTS/NOISE RECEPTORS
INSTITUTIONAL DISPLACEMENTS/NOISE RECEPTORS
FLOODPLAINS (100-YEAR)
STREAMS
LAKES & PONDS
CEMETERY
SCHOOL
CHURCH
SCREEN 2 ANALYSIS WIDTH (650'-700')
LIMITS OF RIGHT-OF-WAY (250'-300')
EDGE OF PAVEMENT
EDGE OF PAVEMENT
LIMITS OF RIGHT-OF-WAY (250'-300')
SCREEN 2 ANALYSIS WIDTH (650'-700')
NOTE: CHEROKEE AND FORSYTH COUNTIES HAVE POTENTIAL HABITAT FOR INDIANA, GRAY, AND NORTHERN LONG-EARED BATS.
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Georgia Department of Transportation
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STATE OF GEORGIA
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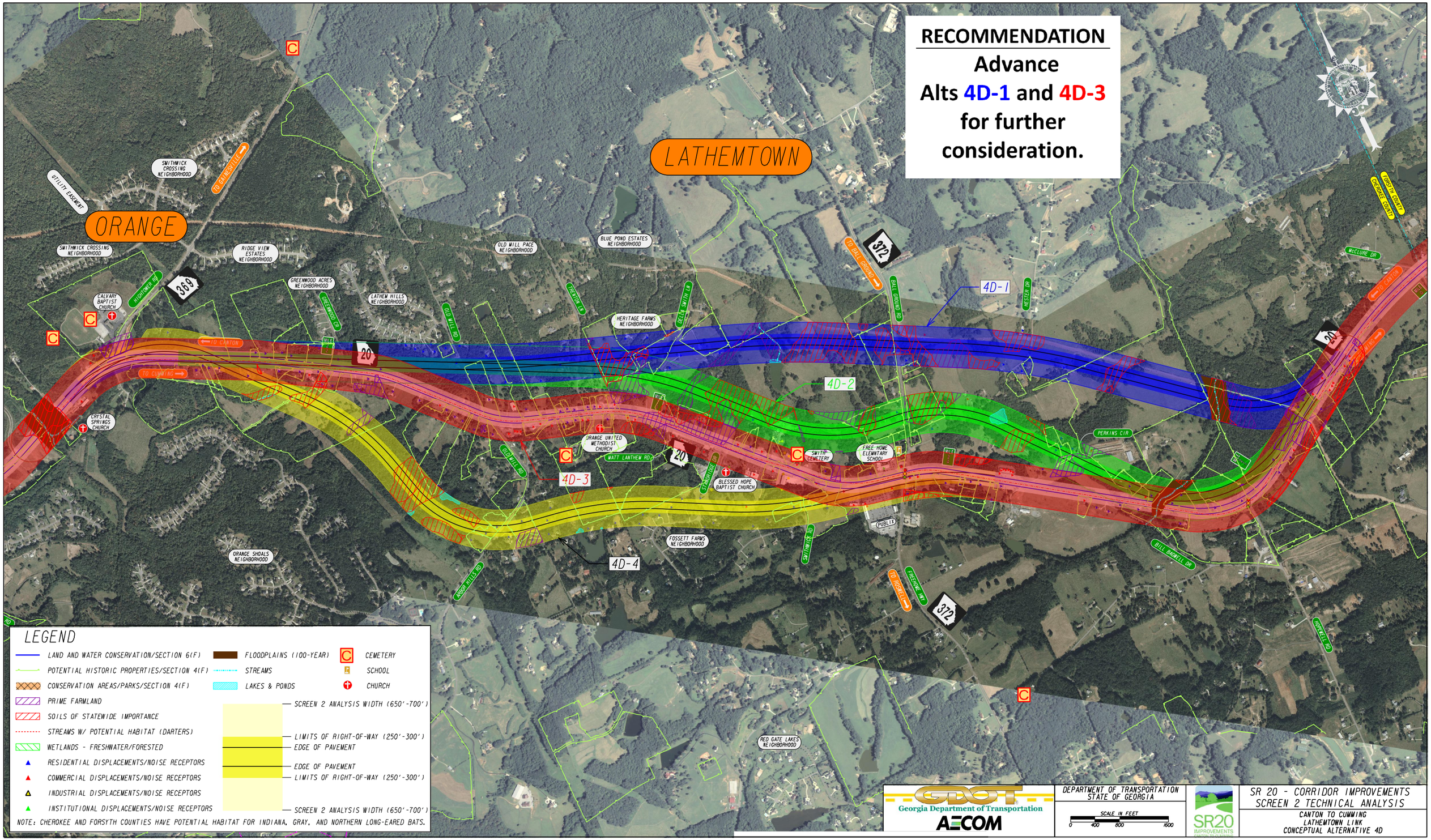
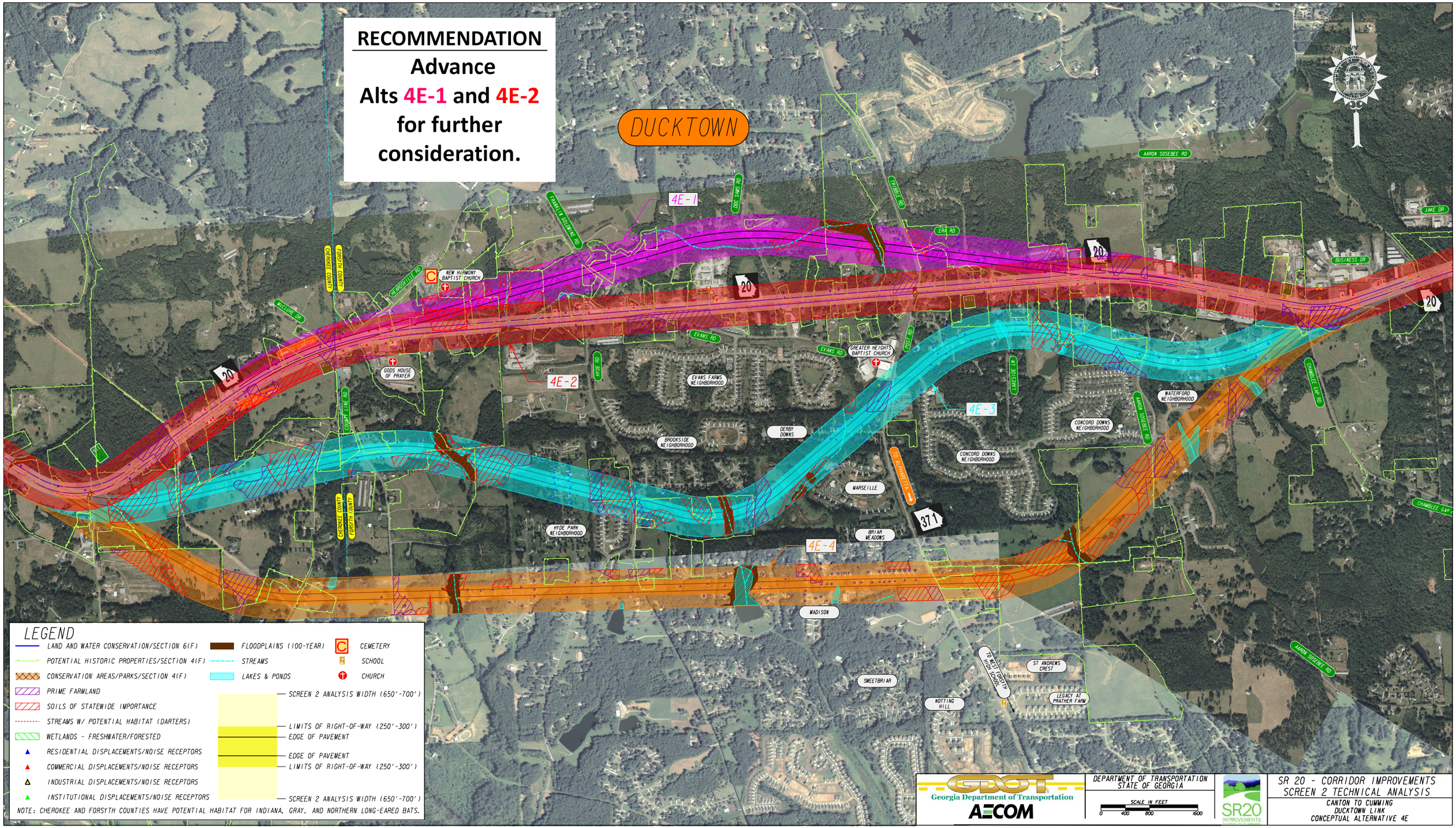
SR20 IMPROVEMENTS
SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 2 TECHNICAL ANALYSIS
CANTON TO CUMMING
MACEDONIA LINK
CONCEPTUAL ALTERNATIVE 4C


RECOMMENDATION
Advance
Alts 4D-1 and 4D-3
for further
consideration.
LATHEMTOWN
ORANGE
4D-1
4D-2
4D-3
4D-4
TO CANTON
TO CUMMING
TO GAINESVILLE
TO BALL GROUND
TO ROSWELL
SMITHWICK CROSSING NEIGHBORHOOD
UTILITY EASEMENT
RIDGE VIEW ESTATES NEIGHBORHOOD
GREENWOOD ACRES NEIGHBORHOOD
LATHEM HILLS NEIGHBORHOOD
OLD MILL PACE NEIGHBORHOOD
BLUE POND ESTATES NEIGHBORHOOD
HERITAGE FARMS NEIGHBORHOOD
CALVARY BAPTIST CHURCH
CRYSTAL SPRINGS CHURCH
ORANGE UNITED METHODIST CHURCH
BLESSED HOPE BAPTIST CHURCH
SMITH CEMETERY
FREE HOME ELEMNTARY SCHOOL
FOSSETT FARMS NEIGHBORHOOD
ORANGE SHOALS NEIGHBORHOOD
RED GATE LAKES NEIGHBORHOOD
PUBLIX
FORSYTH COUNTY
CHEROKEE COUNTY
LEGEND
LAND AND WATER CONSERVATION/SECTION 6(F)
POTENTIAL HISTORIC PROPERTIES/SECTION 4(F)
CONSERVATION AREAS/PARKS/SECTION 4(F)
PRIME FARMLAND
SOILS OF STATEWIDE IMPORTANCE
STREAMS W/ POTENTIAL HABITAT (DARTERS)
WETLANDS - FRESHWATER/FORESTED
RESIDENTIAL DISPLACEMENTS/NOISE RECEPTORS
COMMERCIAL DISPLACEMENTS/NOISE RECEPTORS
INDUSTRIAL DISPLACEMENTS/NOISE RECEPTORS
INSTITUTIONAL DISPLACEMENTS/NOISE RECEPTORS
FLOODPLAINS (100-YEAR)
STREAMS
LAKES & PONDS
CEMETERY
SCHOOL
CHURCH
SCREEN 2 ANALYSIS WIDTH (650'-700')
LIMITS OF RIGHT-OF-WAY (250'-300')
EDGE OF PAVEMENT
EDGE OF PAVEMENT
LIMITS OF RIGHT-OF-WAY (250'-300')
SCREEN 2 ANALYSIS WIDTH (650'-700')
NOTE: CHEROKEE AND FORSYTH COUNTIES HAVE POTENTIAL HABITAT FOR INDIANA, GRAY, AND NORTHERN LONG-EARED BATS.
Georgia Department of Transportation
AECOM
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SCALE IN FEET
0 400 800 1600
SR20 IMPROVEMENTS
SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 2 TECHNICAL ANALYSIS
CANTON TO CUMMING
LATHEMTOWN LINK
CONCEPTUAL ALTERNATIVE 4D


RECOMMENDATION
Advance
Alts 4E-1 and 4E-2
for further
consideration.
DUCKTOWN
4E-1
4E-2
4E-3
4E-4
FRANKLIN GOLDMINE RD
DOC JONES RD
TRIBBLE RD
ERA RD
AARON SOSEBEE RD
JAKE DR
BUSINESS DR
CHAMBLEE GAP RD
KERBSVILLE RD
NEW HARMONY BAPTIST CHURCH
CHEROKEE COUNTY
FORSYTH COUNTY
WEKLURE DR
TO CANTON
GODS HOUSE OF PRAYER
COMPT LAKE RD
HYDE RD
EVANS RD
EVANS FARMS NEIGHBORHOOD
GREATER HEIGHTS BAPTIST CHURCH
DOSS RD
LAKESIDE LN
WATERFORD NEIGHBORHOOD
CONCORD DOWNS NEIGHBORHOOD
BROOKSIDE NEIGHBORHOOD
DERBY DOWNS
MARSEILLE
TO ALPHARETTA
371
HYDE PARK NEIGHBORHOOD
BRIAR MEADOWS
MADISON
SWEETBRIAR
NOTTING HILL
TO WEST FORSYTH HIGH SCHOOL
ST ANDREWS CREST
LEGACY AT PRATHER FARM
20
LEGEND
LAND AND WATER CONSERVATION/SECTION 6(F)
POTENTIAL HISTORIC PROPERTIES/SECTION 4(F)
CONSERVATION AREAS/PARKS/SECTION 4(F)
PRIME FARMLAND
SOILS OF STATEWIDE IMPORTANCE
STREAMS W/ POTENTIAL HABITAT (DARTERS)
WETLANDS - FRESHWATER/FORESTED
RESIDENTIAL DISPLACEMENTS/NOISE RECEPTORS
COMMERCIAL DISPLACEMENTS/NOISE RECEPTORS
INDUSTRIAL DISPLACEMENTS/NOISE RECEPTORS
INSTITUTIONAL DISPLACEMENTS/NOISE RECEPTORS
FLOODPLAINS (100-YEAR)
STREAMS
LAKES & PONDS
CEMETERY
SCHOOL
CHURCH
SCREEN 2 ANALYSIS WIDTH (650'-700')
LIMITS OF RIGHT-OF-WAY (250'-300')
EDGE OF PAVEMENT
EDGE OF PAVEMENT
LIMITS OF RIGHT-OF-WAY (250'-300')
SCREEN 2 ANALYSIS WIDTH (650'-700')
NOTE: CHEROKEE AND FORSYTH COUNTIES HAVE POTENTIAL HABITAT FOR INDIANA, GRAY, AND NORTHERN LONG-EARED BATS.
Georgia Department of Transportation
AECOM
DEPARTMENT OF TRANSPORTATION
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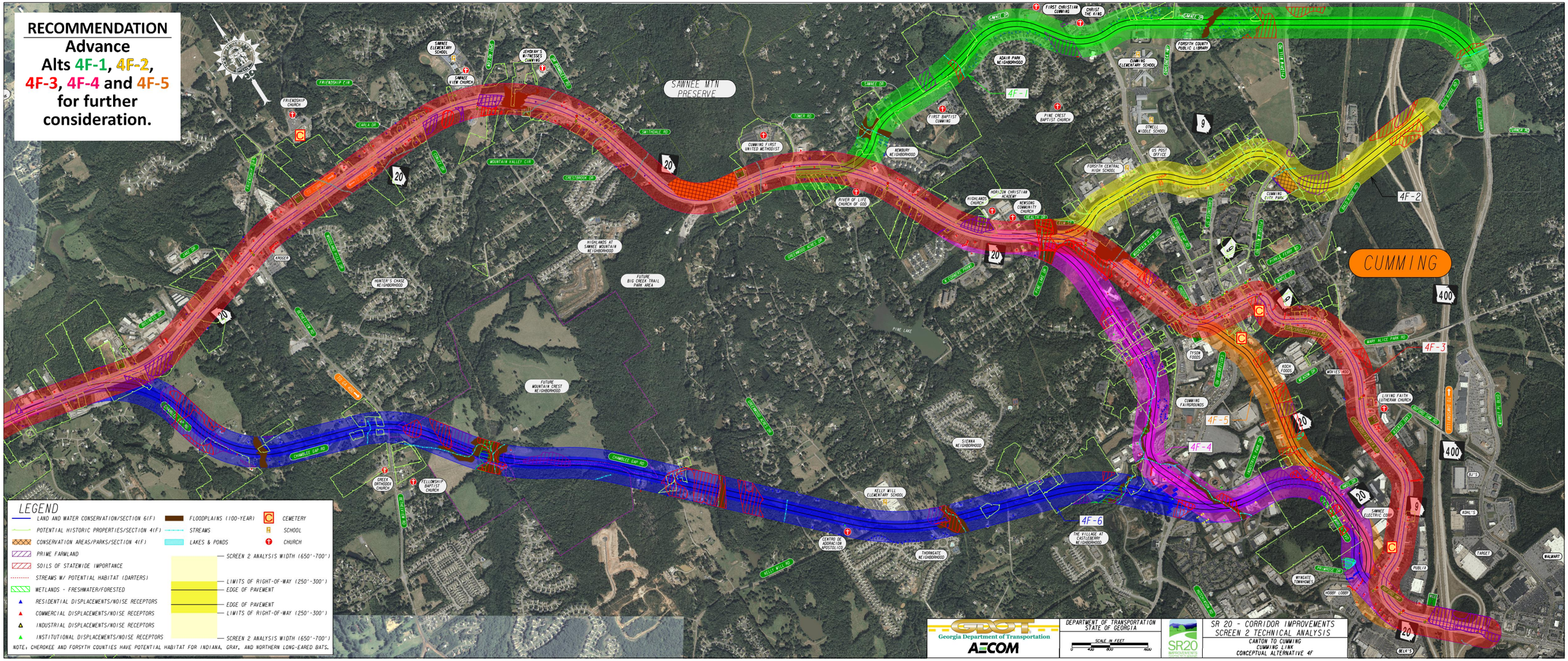
SCALE IN FEET
0 400 800 1600
SR20 IMPROVEMENTS
SR 20 - CORRIDOR IMPROVEMENTS
SCREEN 2 TECHNICAL ANALYSIS
CANTON TO CUMMING
DUCKTOWN LINK
CONCEPTUAL ALTERNATIVE 4E

RECOMMENDATION

Advance Alts 4F-1, 4F-2, 4F-3, 4F-4 and 4F-5 for further consideration.



Improve Mobility for People and Goods

OBJECTIVES:

Accommodate local trip movements

Accommodate regional trip movements

Maximize operational efficiency

Improve access to regional activity centers for passenger and freight vehicles

Improve east - west mobility for passenger and freight vehicles

Address Safety

OBJECTIVES:

Reduce potential for severe crashes

Minimize conflicts (vehicle/vehicle/non-vehicle, access [e.g. intersections, driveways, etc.])

Reduce Congestion

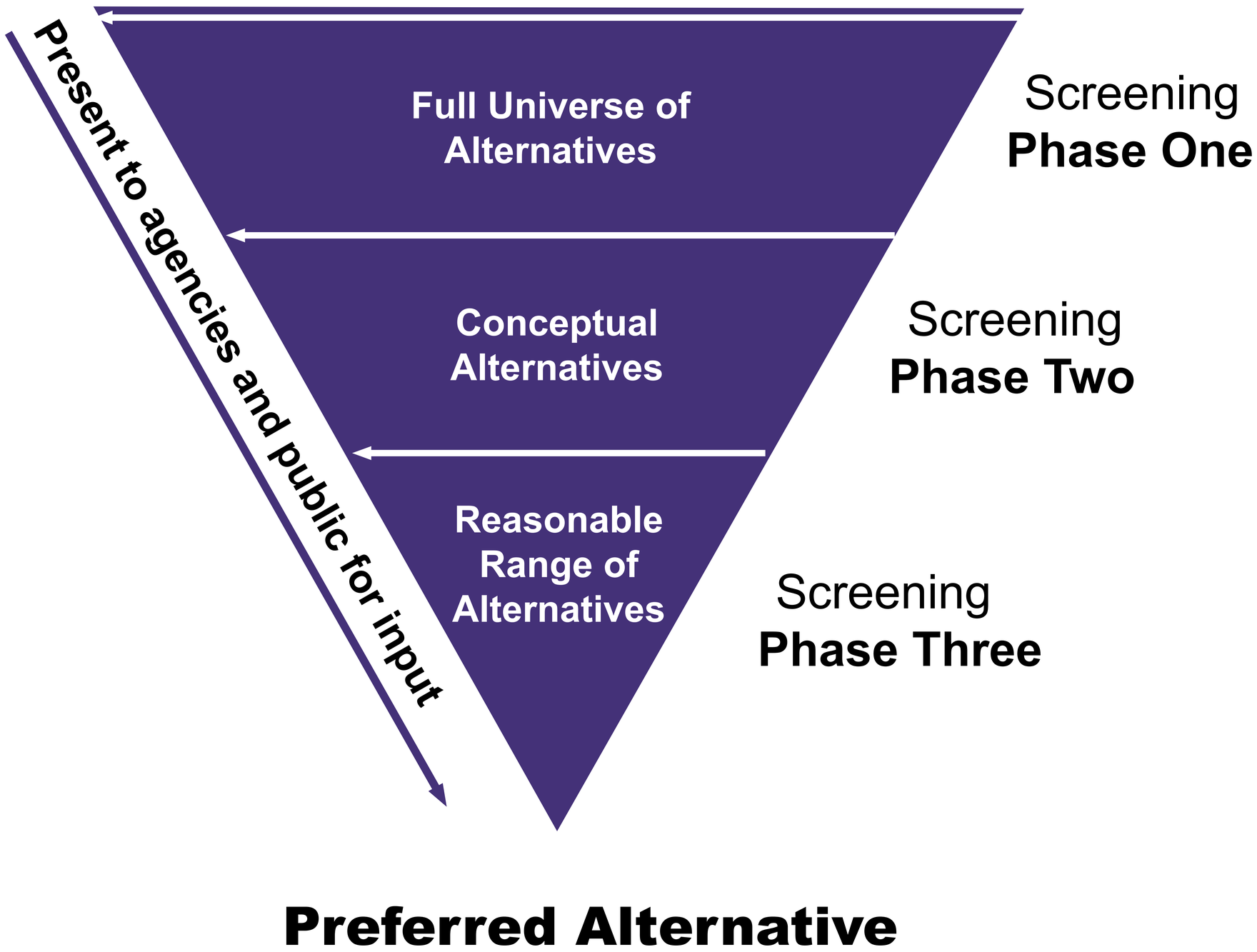
OBJECTIVES:

Accommodate current and future travel demand

Reduce traveler delay

Need & Purpose

Alternatives Analysis



Screen 2
Process

Does Alternative Meet the Need and Purpose?

Does it improve **MOBILITY?** (Travel Time Savings)
Does it reduce **CONGESTION?** (Improved Maneuverability)
Does it improve **SAFETY?** (Less Likely to Crash)

Screen 2
Evaluate Performance

Assess Impacts to Natural / Social / Cultural / Physical Environment

- Streams
- Wetlands & Floodplains
- Lakes & Ponds
- Parks
- Land & Water Conservation Areas
- Protected Species & Areas
- Noise Receptors
- Environmental Justice Populations (Minority & Low-Income)
- Farmland
- Displacements (Residential, Commercial, Industrial, Institutional)
- Potential Historic Resources
- Potential Archaeological Sites
- Cemeteries
- Native American Interest
- Air Quality
- Indirect and Cumulative Impacts
- Construction Impacts
- Mitigation/Avoidance Potential

Screen 2
Evaluate Environmental / Community Impacts

Screen 2
Evaluate Costs

Mobility-Travel Time Savings Corridor Wide

Conceptual Alternative	Estimated Total Minutes Saved *(combination of traveling in both directions)*	Estimated Percent Decrease in Travel Time	Estimated Fuel Saved per user/ per year *(gallons)*	Estimated Cost *(in $million)*
0*	N/A	0%	0	$0
1	Qualitative Analysis	Qualitative Analysis	Qualitative Analysis	$2.8
2	72.3	36.9%	88	$280
3A	66.7	34.0%	95	$616
3B	77.2	39.3%	102	$631
4 A-F	See Next Board			
5A	40.3	20.6%	68	$249
5B	Qualitative Analysis	Qualitative Analysis	Qualitative Analysis	$229

* 197 Minutes Total trip time (minutes) for the No-Build Congested Time (traveling both ways between I-575 and SR 400).

Mobility-Travel Time Savings By Area (Alt 4 Sub Alternatives)

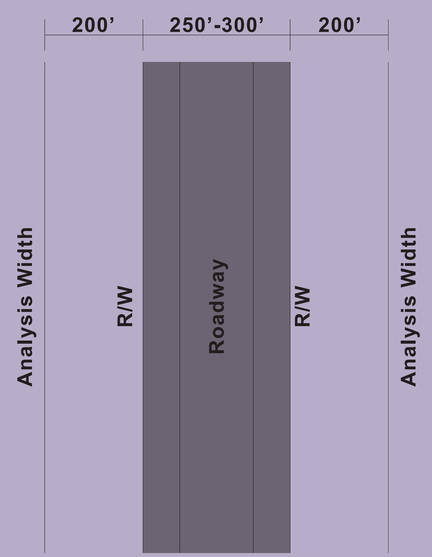
Conceptual Alternative	Estimated No-Build Travel Time per link *(minutes)*	Estimated Build Travel Time per link *(minutes)*	Estimated Total Travel Time Saved *(minutes)*	Estimated Percent Decrease in Travel Time	Estimated Fuel Saved per user/ per year *(gallons)*	Estimated Cost *(in $million)*
4A	6.8	6.8	0.3	0.4%	0.3	$15.3
4B	41.2	14.4	26.8	65%	14	$51.5
4C	21.9	10.7	11.2	51%	16	$44.2
4D	38.8	19.2	19.6	51%	15	$66.7
4E	18.5	10.9	7.6	41%	14	$72.4
4F-1	69.6	49.6	20.0	29%	36	$101.6
4F 2-5	69.6	44.2	25.4	36%	31	$106.3
4F-6	69.6	50.5	19.1	27%	42	$86.9
TOTAL (AVG)*	197	106.2	90.6	41%	90	$356.4

* The Total (Avg) was calculated using section 4F2-5 and not 4F-1 or 4F-6
Note: All data has been estimated. See Screen 2 report for more detail.

SR20
IMPROVEMENTS
CANTON TO CUMMING

STATION 4

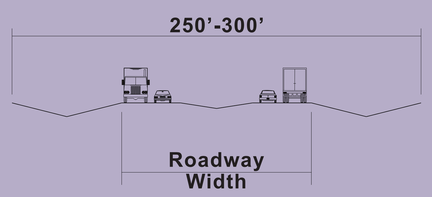
Alternatives Development and Design Considerations



1st Pass Concept

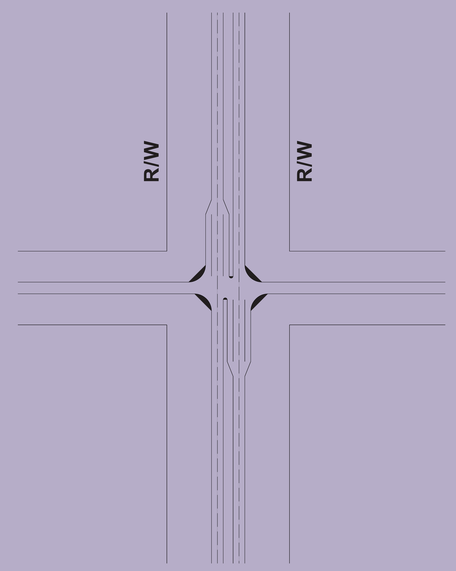
GOAL: Identify General Corridors

Typical



Alternatives Analysis Screen #2

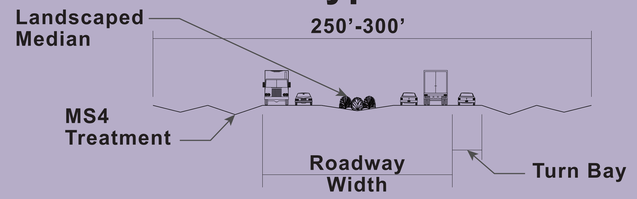
- Environmental/Community Impacts Evaluation
- Performance Evaluation
- Cost Evaluation
- Benefit vs. Cost Evaluation



2nd Pass

GOAL: Further develop footprint for more accurate impact/performance analysis

Typical

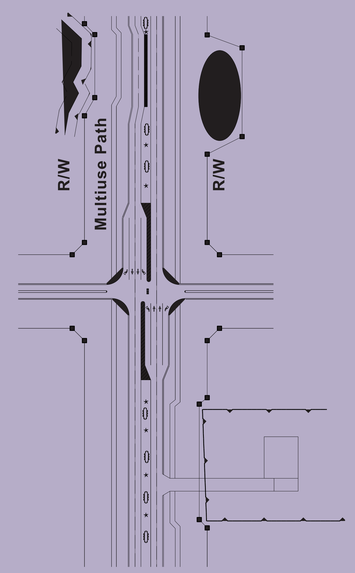


Additional details to be included:

Turn bays & lengths identified (conservative)
MS4 requirement identified (conservative)
Typical median treatment identified

Alternatives Analysis Screen #3

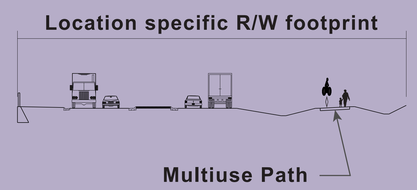
- Environmental/Community Impacts Evaluation
- Performance Evaluation
- Cost Evaluation
- Benefit vs. Cost Evaluation



Refined (context sensitive)

GOAL: Develop realistic R/W requirements

Typical



Project Schedule

Agency and Public Outreach Activities

AUGUST 2012 - DECEMBER 2012

- Project initiation
- Development of Draft Public Involvement Plan & Draft Agency Coordination Plan

WINTER / SPRING 2013

- Notice Of Intent (NOI)
- Project Definition and Scoping Activities
- Form Advisory Committees

SPRING 2013 - FALL 2015

- Screen 1 - Alternatives Development
- Screen 2 - Analysis
- Determine Reasonable Range of Alternatives for Further Refinement & Analysis

2016 AND BEYOND

- Engineering Refinements
- Detailed Environmental Analysis and Documentation (e.g. DEIS/FEIS/ ROD)
- Select Preferred Alternative
- Purchase Right-of-Way
- Final Design
- Construction

We Are Here