

DRAFT ALTERNATIVES COMPARISON

IMPROVEMENT		ALTERNATIVE 1 Service Focus	ALTERNATIVE 2 Infrastructure Focus	ALTERNATIVE 3 Mixed Service and Infrastructure
PHYSICAL IMPROVEMENTS				
BASELINE IMPROVEMENTS	Bus Stop Removal/Consolidation: - 4 southbound locations (Newton, Lamont, V Streets and Riggs Place) - 5 northbound locations (L , Q , V, Lamont and Newton Streets)	✓	✓	✓
	Far-Side Bus Stop Expansion: 2 southbound locations (Harvard and M Streets)	✓	✓	✓
	Relocate southbound Spring Place bus stop north to Spring Road to improve pedestrian safety	✓	✓	✓
	Upgrade bus stops to WMATA zone lengths	✓	✓	✓
ADDITIONAL IMPROVEMENTS	Bus Lanes		Full length, both directions 7:00 am - 10:00 pm	Full length, extended peak period peak direction: - 7:00 am - 10:00 am southbound - 4:00 pm - 7:30 pm northbound
	Lane configuration changes between U and O Streets due to bus lanes		Addition of center reversible lane	Lane shift: - 2 lanes southbound and 1 lane northbound 7:00 - 10:00 am - 2 lanes northbound and 1 lane southbound 4:00 - 7:30 pm
	Queue Jump Lanes	✓		
	Intersection Reconfiguration at Harvard/Columbia/Mount Pleasant		✓	
TRANSIT SERVICE IMPROVEMENTS (Any proposed service changes would require a future public involvement process led by WMATA)				
BASELINE IMPROVEMENTS	Headway-based service	✓	✓	✓
	S2 Route patterns reduced to two in each direction	✓	✓	✓
	S1 and S2 service eliminated along 14th Street between Northern Bus Garage and 16th Street	✓	✓	✓
	Running and recovery time added to schedule	✓	✓	✓
	Fleet mix upgraded with low-floor and articulated buses	✓	✓	✓
ADDITIONAL IMPROVEMENTS	Off-Board Fare Payment	All buses, all stops	SmarTrip Card top off only	S9 buses and stops only
	All-Door Boarding	All buses, all stops		S9 buses and stops only
	S1 converted to limited stop service using current S9 stops	✓		
	Service Patterns Truncated in Downtown - Farragut Square for S1 - McPherson Square Metro for S2/S4	✓		
	Deadhead service relocated to Arkansas Avenue from Missouri Avenue	✓		
TRAFFIC OPERATIONS IMPROVEMENTS				
BASELINE IMPROVEMENTS	Transit signal priority (TSP) at 15 planned locations and five additional locations configured for headway-based service	✓	✓	✓
	Peak period parking restrictions extended to 7:00 - 10:00 am (from 9:30 am) and 4:00 - 7:30 pm (from 6:30 pm)	✓	✓	✓
	Southbound reversible lane extended to 7:00 - 10:00 am (from 9:30 am)	✓	✓	✓
	Southbound left turn lane separation and advance signage at W Street	✓	✓	✓
	Pedestrian safety improvements, including at Arkansas Avenue, Sacred Heart Way, and Harvard/Columbia/Mount Pleasant	✓	✓	✓
	Bus stop amenity and access improvements	✓	✓	✓
	Correct parking restrictions northbound between L and M Streets to prohibit PM peak parking	✓	✓	✓
	Work with Downtown hotels on taxi and loading zone relocation	✓	✓	✓
ADDITIONAL IMPROVEMENTS	Automated Parking Enforcement on Buses	Enforcement of peak hour restrictions	Enforcement of bus lanes	
	Dedicated Towing		Pilot program with potential extension	✓
	Remove Midday Parking	✓		
	Left-Turn Restrictions - Southbound at Irving Street - Northbound at Mount Pleasant Street	✓		✓
	Peak hour signal timing extended for north-south traffic through midday (pending further analysis as part of the ongoing citywide Traffic Signal Optimization effort)			✓
PERFORMANCE METRICS				
Preliminary Travel Time Savings Estimate		★	★★★★	★★
Preliminary Reliability Estimate		★★★★	★	★★

BASE

DRAFT IMPROVEMENTS

These improvements are proposed in all 3 alternatives

PHYSICAL IMPROVEMENTS

- Expand far-side bus stops in 2 southbound locations: (Harvard and M Streets)
- Upgrade bus stops to WMATA zone lengths
- Remove/consolidate bus stops
 - 4 southbound locations: (Newton, Lamont, V and Riggs)
 - 5 northbound locations: (L, Q, V, Lamont, and Newton Streets)
- Relocate southbound Spring Place bus stop north to Spring Road to improve pedestrian safety

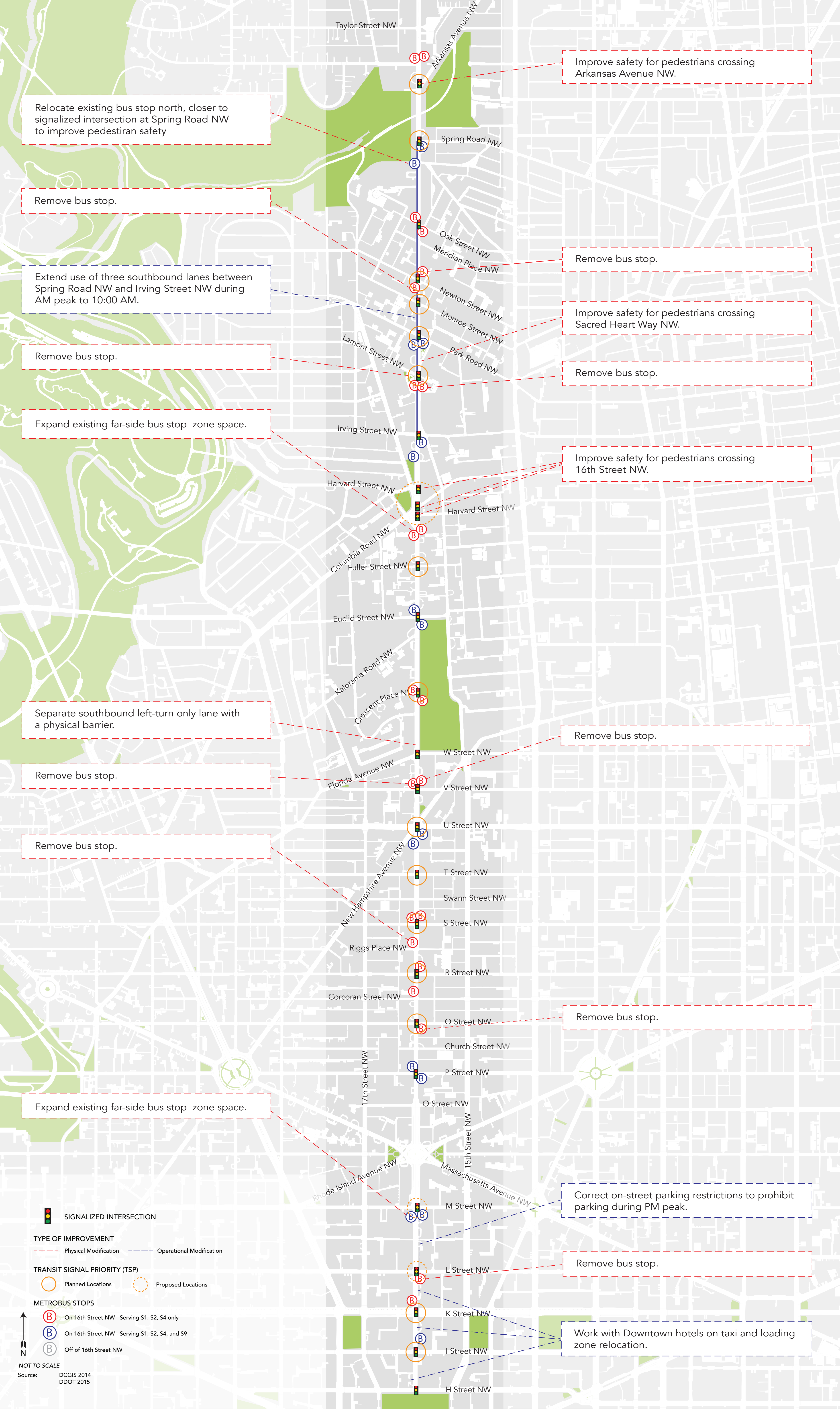
TRANSIT IMPROVEMENTS

- Reduce S2 route patterns to two in each direction
- Eliminate 'In-Service' between Northern Bus Garage and 16th Street along 14th Street
- Add running and recovery time to schedule
- Upgrade bus fleet with low floor and articulated buses
- Implement headway-based service

TRAFFIC OPERATIONS IMPROVEMENTS

- Extend parking restrictions to 10:00am (from 9:30am) and 7:30pm (from 6:30pm)
- Extend reversible lane timing to allow 3 lanes southbound until 10:00am
- Implement Transit Signal Priority (TSP) at planned locations and proposed locations (see map)
- Separate left-turn lane southbound and add advance signage at W Street
- Improve pedestrian safety and bus stops at targeted locations (e.g., Arkansas, Sacred Heart, Harvard, Columbia and Mount Pleasant)
- Correct parking restrictions northbound between L and M Streets to prohibit PM Peak parking
- Work with Downtown hotels on taxi and loading zone relocation

SERVICE CHANGE NOTE:
Any proposed service changes would require a future public involvement process led by WMATA



BASE + ALTERNATIVE 1 DRAFT IMPROVEMENTS

Service Focus

PHYSICAL IMPROVEMENTS

- Add queue-jump lanes at:
 - U Street - northbound
 - Columbia Road - southbound
 - M Street - northbound

TRANSIT IMPROVEMENTS

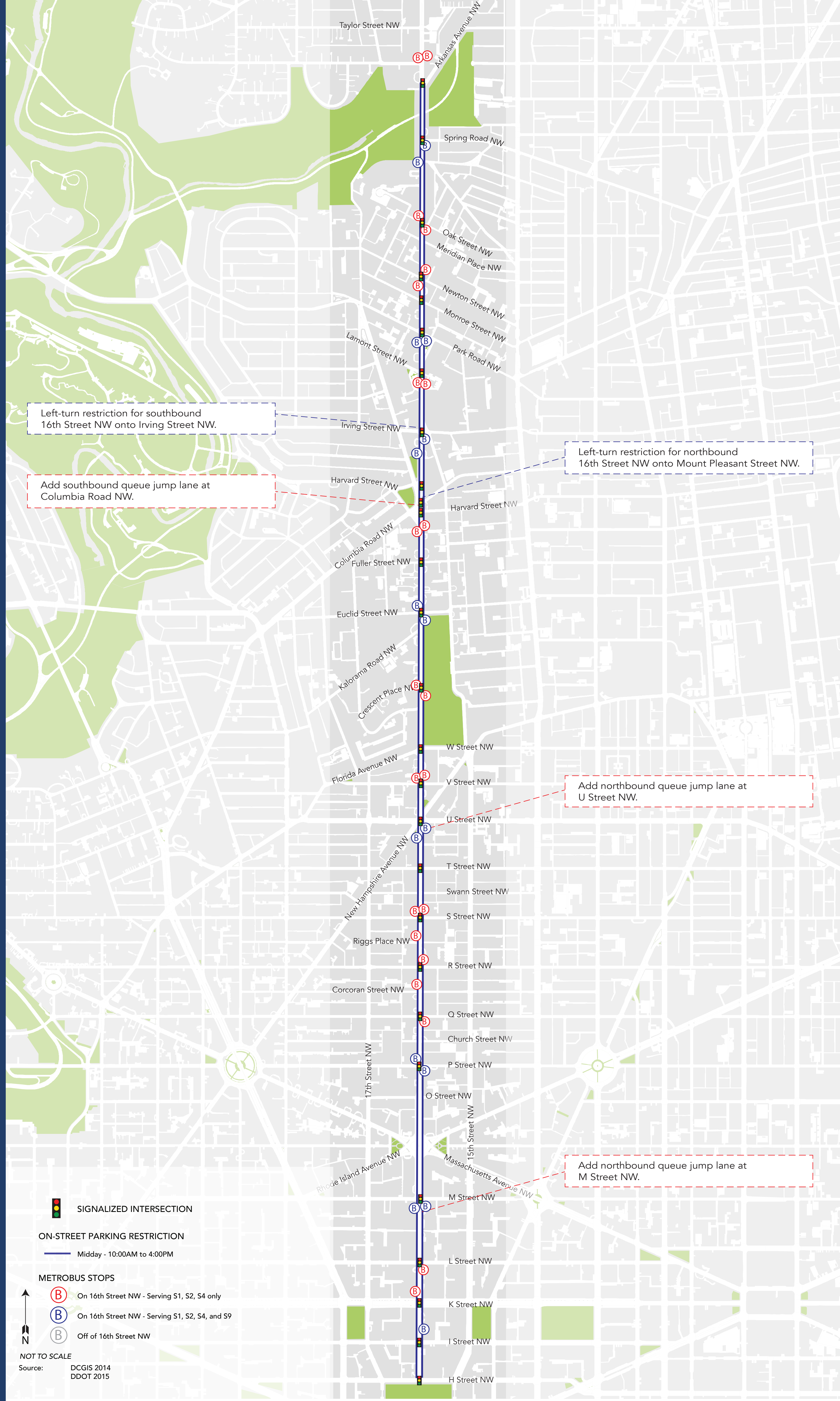
- Implement limited stop service for S1 Route using current S9 stops
- Relocate deadhead service to Arkansas Avenue from Missouri Avenue
- Truncate service patterns in Downtown
 - McPherson Square Metro for S2/S4
 - Farragut Square for S1
- Implement off-board fare payment with enforcement inspection for all stops
- Allow all-door boarding for all stops

TRAFFIC OPERATIONS IMPROVEMENTS

- Incorporate automated parking enforcement on buses for peak hour restrictions
- Left-turn restrictions
 - Southbound - Irving Street
 - Northbound - Mount Pleasant Street
- Remove midday parking

SERVICE CHANGE NOTE:

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BASE + ALTERNATIVE 2 DRAFT IMPROVEMENTS

Infrastructure Focus

PHYSICAL IMPROVEMENTS

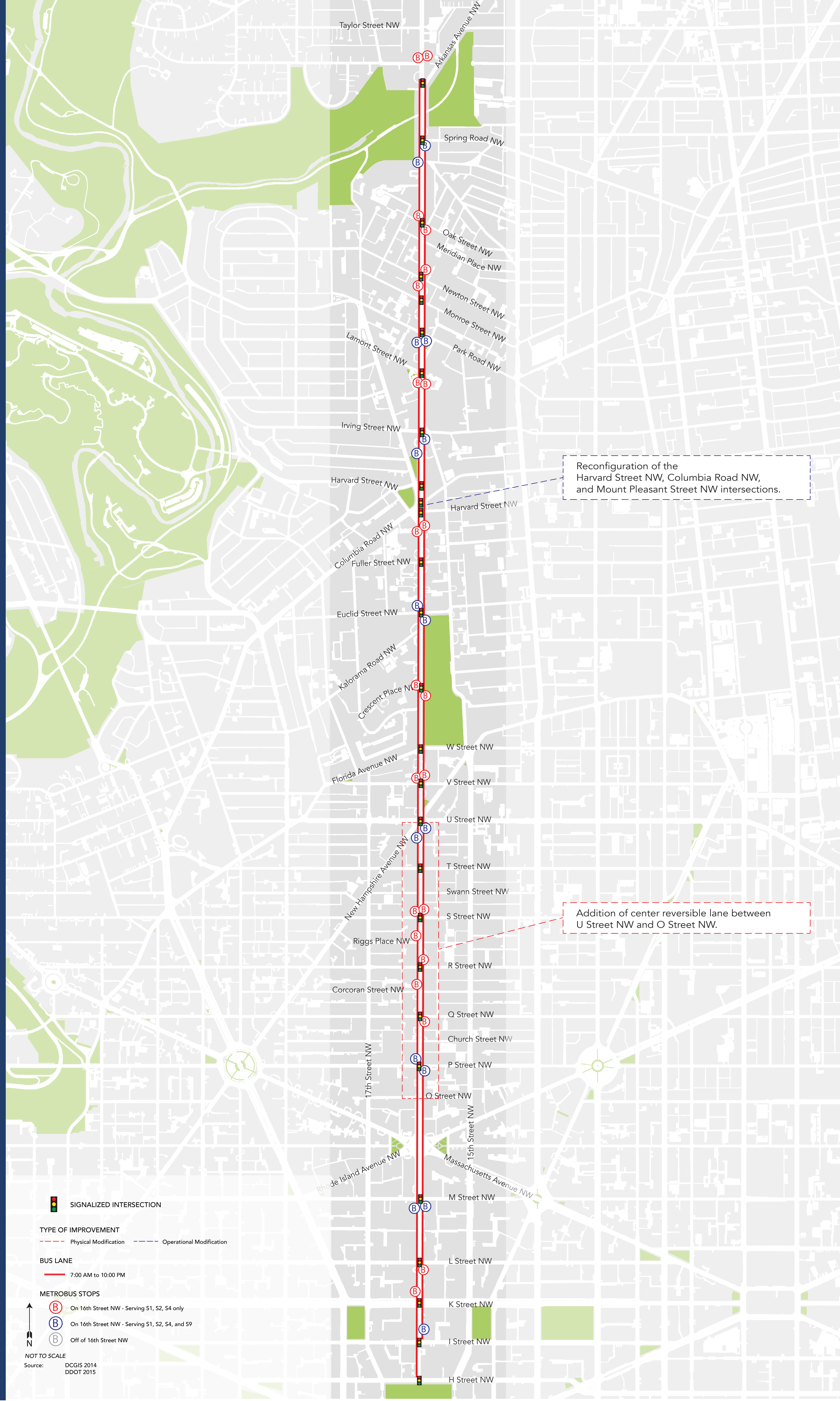
- Implement bus lanes both directions from 7:00am – 10:00pm for full length of corridor
- Add a center reversible lane

TRANSIT IMPROVEMENTS

- Add off-board fare loading stations for SmarTrip cards

TRAFFIC OPERATIONS IMPROVEMENTS

- Reconfigure intersection of Harvard/ Columbia/Mt.Pleasant
- Incorporate automated parking enforcement on buses of bus lane
- Pilot a dedicated towing program with potential extension



SERVICE CHANGE NOTE:

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BASE +
ALTERNATIVE 3
DRAFT IMPROVEMENTS

Mixed Service and
Infrastructure

PHYSICAL IMPROVEMENTS

- Implement extended peak period, peak direction bus lane full length of the corridor
- Lane configuration changes between U and O Streets due to bus lanes
 - 2 lanes southbound and 1 lane northbound 7:00 - 10:00am
 - 2 lanes northbound and 1 lane southbound 4:00 - 7:30pm

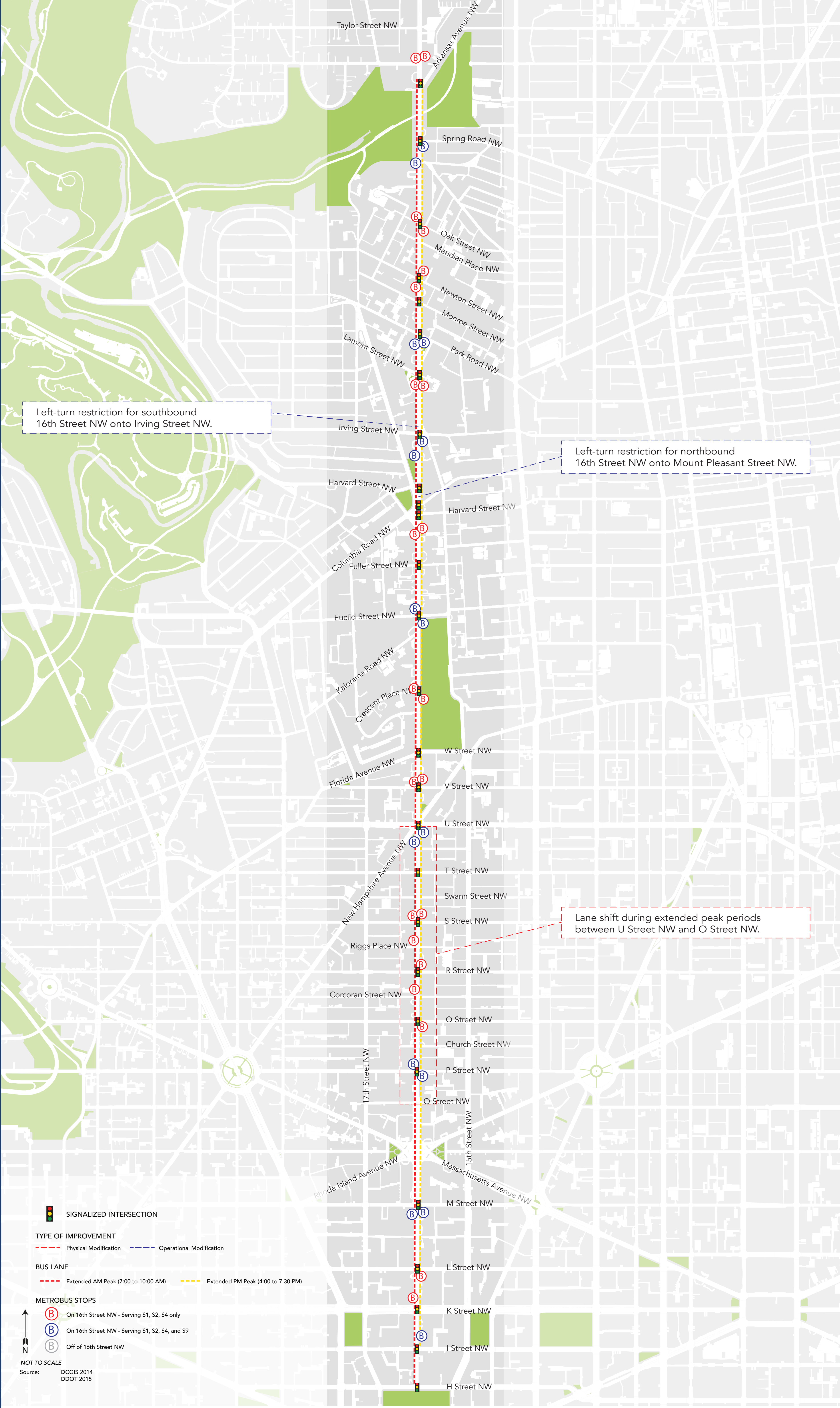
TRANSIT IMPROVEMENTS

- Implement off-board fare payment at S9 stops for S9 buses only
- Allow all-door boarding on S9 stops for S9 buses only

TRAFFIC OPERATIONS IMPROVEMENTS

- Eliminate midday signal timing plan
- Pilot dedicated towing service
- Restrict left-turns
 - Southbound - Irving Street
 - Northbound - Mount Pleasant Street

SERVICE CHANGE NOTE:
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Parking Spaces - Primary Study Area

	West Side of Street				East Side of Street				Total			
	AM Peak	Midday	PM Peak	Evening	AM Peak	Midday	PM Peak	Evening	AM Peak	Midday	PM Peak	Evening
Existing Conditions	0	235	120	235	120	300	10	300	120	535	130	535
Draft Base Improvements	0	230	115	230	115	295	0	295	115	525	115	525
Draft Alternative 1	0	0	115	230	115	0	0	295	115	0	115	525
Draft Alternative 2	0	0	0	230	0	0	0	295	0	0	0	525
Draft Alternative 3	0	230	0	230	0	295	0	295	0	525	0	525

Notes:

- Parking figures provided are planning-level estimates and are intended to serve as a tool for comparing alternatives.
- The actual hours that comprise each of the four time periods vary among the existing conditions, draft base improvements and draft alternatives, as shown below.

	AM Peak	Midday	PM Peak	Evening
Existing Conditions	7:00 – 9:30AM	9:30AM – 4:00PM	4:00- 6:30PM	6:30PM – 7:00AM
Draft Base Improvements	7:00 – 10:00AM	10:00AM – 4:00PM	4:00- 7:30PM	7:30PM – 7:00AM
Draft Alternative 1	7:00 – 10:00AM	10:00AM – 4:00PM	4:00- 7:30PM	7:30PM – 7:00AM
Draft Alternative 2	7:00 – 10:00AM	10:00AM – 4:00PM	4:00- 10:00PM	10:00PM – 7:00AM
Draft Alternative 3	7:00 – 10:00AM	10:00AM – 4:00PM	4:00- 7:30PM	7:30PM – 7:00AM

Draft Alternative 1 - Potential Route Truncations

Note: Any proposed service changes would require a future public involvement process led by WMATA.

RIDERSHIP

Route	Southbound Alightings			Northbound Boardings		
	S1	S2	S4	S1	S2	S4
Truncated Segment*	903	574	297	379	774	200
South of Arkansas Avenue NW	1658	4527	2697	617	3064	2122
Truncated Segment as a Percentage of South of Arkansas Avenue NW	54.4%	12.7%	11.0%	61.4%	25.2%	9.4%
Truncated Segment as a Percentage of S Line Total	8.0%	5.1%	2.6%	3.4%	7.0%	1.8%

*Segments between Farragut Square and Potomac Park on S1 and between McPherson Square and Federal Triangle on S2 and S4.

Source: WMATA: S Line Ridership by Route and Stop - Fall Quarter 2014

POTENTIAL ALTERNATIVE ROUTES FOR TRUNCATED SEGMENTS

S1 Southbound and Northbound

- 80 route (15-20 minute headways)

S2/S4 Southbound

- 30N, 30S, 32, 33, 36, 37, 39 routes (Transfer at Lafayette Place and H Street NW; 1-10 minute headways)
- 54 route (Transfer at 14th Street and H Street NW; 14-20 minute headways)
- 63 route (Transfer at 14th Street and H Street NW; 18 minute headways)
- D1 route (Transfer at 16th Street and K Street NW; 7-12 minute headways peak periods only)

S2/S4 Northbound

- 30N, 30S, 32, 33, 36, 37, 39 routes (Transfer at 14th Street and I Street; similar headways as above)
- 54 route (Transfer at 14th Street and I Street; similar headways as above)
- 63 route (Transfer at 14th Street and I Street; similar headways as above)
- D1 route (Transfer at 14th Street and I Street; similar headways as above)