



## Special Event Operation - WMATA SafeTrack

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# Special Event – WMATA SafeTrack

## Preparation - Prior to

- Identify the potential impact to roadways in NoVa
- Develop the operations plan

## Monitoring and Responding - During

- Implement necessary actions

## Evaluation - After

- Assess traffic impacts after each surge

# Potential Traffic Impact

Metro Lines Impacted	Safe Track Plan #	Dates (Duration)	Work Type	Location	Trips Affected	Affected Roadways
OR SL	1 5	06/04/16 - 06/16/16 (13 Days) 07/20/16 - 07/31/16 (12 Days)	Single tracking/Reduced Service	Single tracking - E. Falls Church & Ballston Reduced Service - all orange and silver stations	73,000	Beltway (from I-395 to American Legion Bridge), I-66, I-395, Rte 7 (Leesburg Pike), Rte 29 (Lee Hwy), Rte 50 (Lee Jackson Memorial Hwy), Rte 123 (Chain Bridge Rd/Dolley Madison Blvd), Rte 193 (Georgetown Pike), Rte 236 (Little River Tpke), Rte 244 (Columbia Pike), Rte 267 (Dulles Toll Road), Baron Cameron Ave (606), Braddock Road (620), Gallows Rd (650), Sunset Hills Rd (675), Wiehle Ave (828), Sunrise Valley Dr (5320) George Washington Parkway (National Park Service Control)
	11 15	11/28/16 - 12/21/16 (24 Days) 03/06/17 - 03/19/17 (14 Days)	Single tracking/Reduced Service	Single tracking - W. Falls Church & E. Falls Church Reduced Service - all orange and silver stations	65,000	
OR SL BL	2	06/18/16 - 07/03/16 (16 Days)	Closed/Reduced Service	Shutdown - Rosslyn and Arlington Cemetery Reduced Service - all orange, silver, and blue stations	61,000	Beltway (from WWB to American Legion Bridge), I-66, I-395, Rte 7 (Leesburg Pike), Rte 29 (Lee Hwy), Rte 50 (Lee Jackson Memorial Hwy), Rte 110 (Route 110), Rte 123 (Chain Bridge Rd/Dolley Madison Blvd), Rte 193 (Georgetown Pike), Rte 236 (Little River Tpke), Rte 244 (Columbia Pike), Rte 267 (Dulles Toll Road), Baron Cameron Ave (606), Braddock Road (620), Gallows Rd (650), Sunset Hills Rd (675), Wiehle Ave (828), Sunrise Valley Dr (5320) George Washington Parkway (National Park Service Control)
BL YL	3	07/05/16 - 07/11/16 (7 Days)	Closed/Reduced Service	Shutdown - National Airport & Braddock Rd Reduced Service - all blue and yellow stations	50,000	Beltway (from WWB to I-395), I-95 (from Fairfax County Pkwy to I-395), I-395, Rte 1 (Richmond Hwy), Rte 289 (Franconia Springfield Pkwy), Telegraph Rd (611), Beulah Rd (613), Van Dorn St (613), S Kings Hwy (633), Franconia Rd (644), Huntington Ave (1332), Kingstowne Blvd (8113) George Washington Parkway (National Park Service Control)
	4	07/12/16 - 07/18/16 (7 Days)	Closed/Reduced Service	Shutdown - National Airport & Pentagon City Reduced Service - all blue and yellow stations	86,000	
	8	08/20/16 - 09/05/16 (17 Days)	Single tracking/Reduced Service	Single tracking - Franconia-Springfield & Van Dorn St Reduced Service - Franconia-Springfield and Van Dorn St stations	18,000	
	14	01/02/17 - 01/13/17 (12 Days) 01/23/17 - 02/03/17 (12 Days)	Single tracking/Reduced Service	Single tracking - Braddock Rd & Huntington/Van Dorn St Reduced Service - all blue and yellow stations	50,000	
OR	9	09/15/16 - 10/20/16 (36 Days)	Single tracking/Reduced Service	Single tracking - Vienna & W. Falls Church Reduced Service - Vienna and Dunn Loring stations	30,000	I-66, Rte 29 (Lee Hwy), Rte 50 (Lee Jackson Memorial Hwy), Rte 123 (Chain Bridge Rd/Dolley Madison Blvd), Rte 286 (Fairfax County Pkwy), Reston Pkwy (602), West Ox Rd (608), Braddock Road (620), Gallows Rd (650), Sunset Hills Rd (675), Sunrise Valley Dr (5320)
BL	13	12/07/16 - 12/24/16 (18 Days)	Closed/Reduced Service	Shutdown - Rosslyn & Pentagon Reduced Service - all blue stations	12,000	Beltway (from WWB to I-395), I-95 (from Fairfax County Pkwy to I-395), I-395, Rte 1 (Richmond Hwy), Telegraph Rd (611), Beulah Rd (613), Van Dorn St (613), S Kings Hwy (633), Franconia Rd (644), Huntington Ave (1332), Kingstowne Blvd (8113) George Washington Parkway (National Park Service Control)

# Actions Taken

## **NoVa SafeTrack Weekly Call (Hosted by NVTC):**

- Receive updated project info from WMATA
- Coordinate with multiple agencies in the region
- Provide traffic status update

## **Traffic Operations and Management Strategies:**

- Actively monitor traffic conditions on both freeways and arterials
- Adjust work zone and lane closure hours along the affected roadways
- Installed some portable cameras near Metro Stations
- Collect traffic data and conduct condition assessments
- Coordinate with localities when needed

## **Adjust traffic signal timings in real time:**

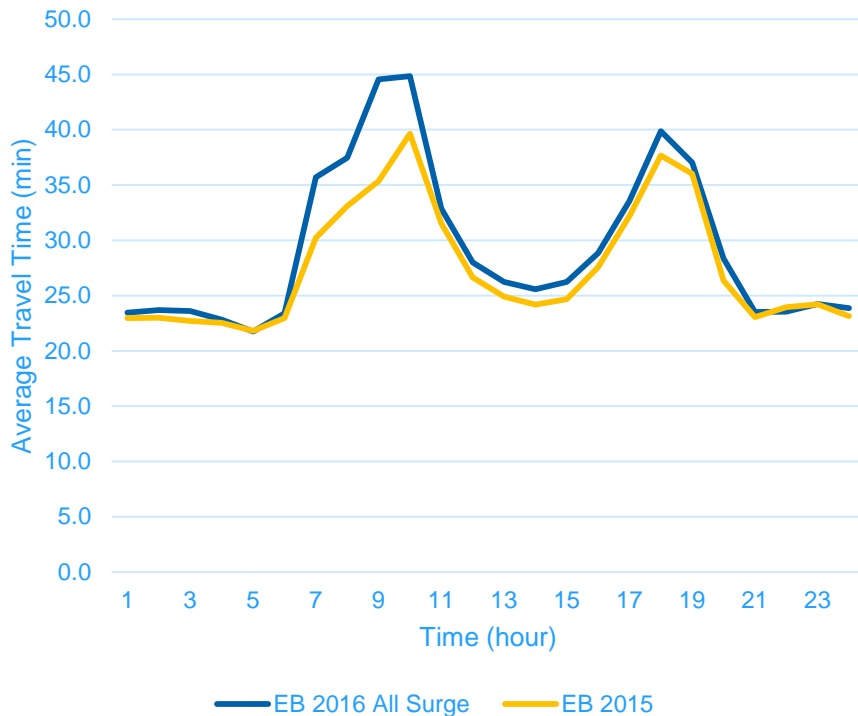
- Observed shifted peak hour and made signal timing adjustments accordingly

# Traffic Condition Assessment

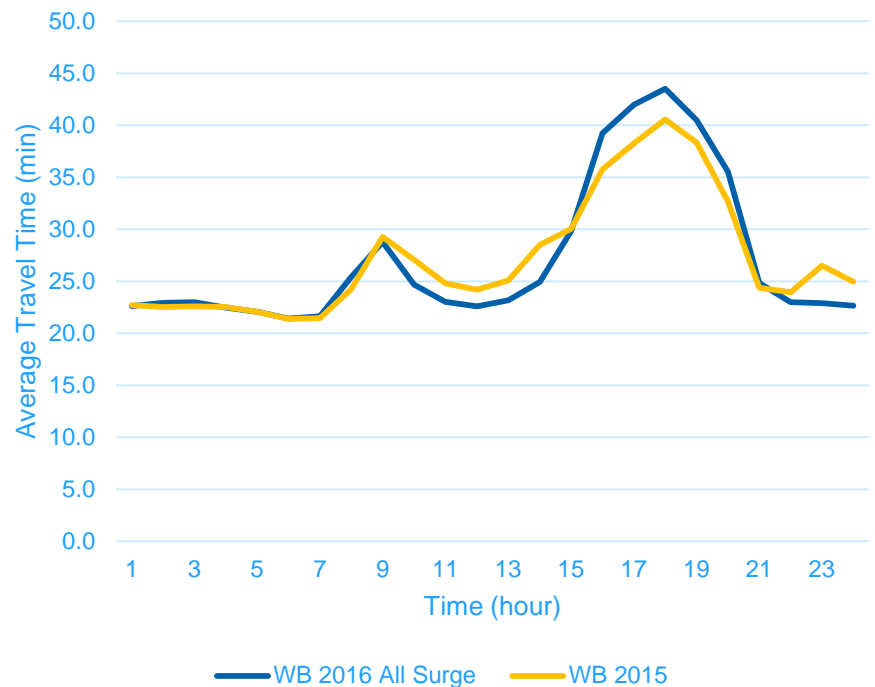
## Impacts to I-66 (Rt.28 to TR Bridge)

### Weekday Travel Times 2016 vs. 2015

EB Average Travel Time in Weekday during Surges Impacting Orange/Silver Lines



WB Average Travel Time in Weekday during Surges Impacting Orange/Silver Lines



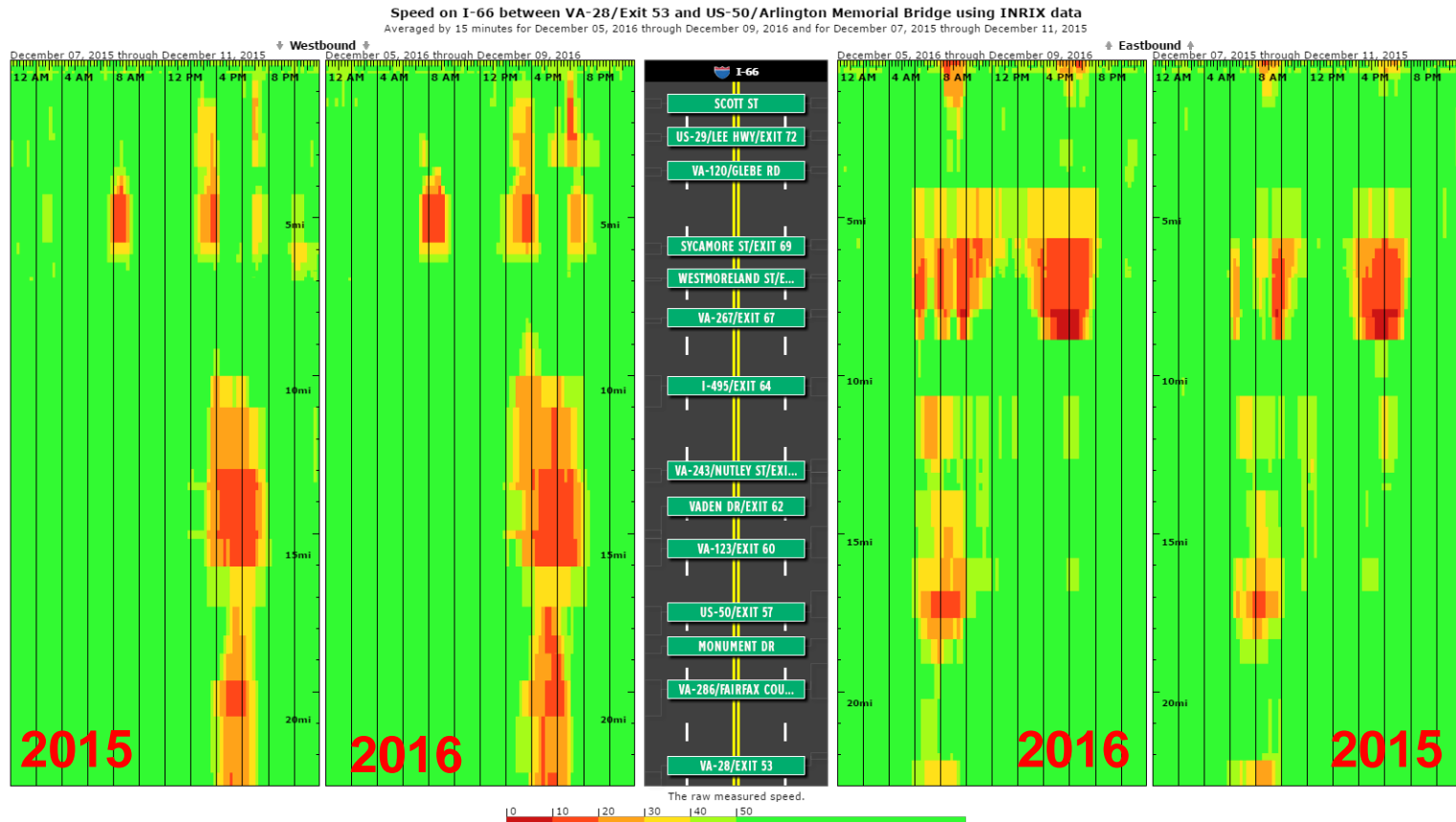
# Traffic Condition Assessment

## Traffic Volume Changes – Surge 1

Volume Difference	TYPICAL WEEKDAY	AVERAGE OF WEEKENDS	TYPICAL WEEKDAY	TYPICAL WEEKDAY	AVERAGE OF WEEKEND PEAK
	AVERAGE OF TUE, WED AND THU 24 HOURS	AVERAGE OF SAT AND SUN 24 HOURS	AM HOURS 5:00-10:00	PM HOURS 15:00-20:00	PEAK HOURS 11:00-16:00
RT29 @ N Sycamore St, EB	4.9%	3.3%	4.6%	1.8%	3.3%
RT29 @ N Sycamore St, WB	3.2%	1.1%	6.5%	2.8%	-1.0%
RT50 @ Annandale Rd, EB	2.1%	2.2%	-2.0%	1.6%	0.9%
RT50 @ Annandale Rd, WB	2.2%	1.8%	1.5%	0.1%	0.6%
RT123 @ GW Pkwy, EB	5.4%	6.5%	5.8%	4.8%	13.0%
RT123 @ GW Pkwy, WB	3.5%	1.6%	1.2%	5.1%	1.8%
I-66 @ MM72 (Fairfax Dr), EB	-1.9%	-2.2%	-4.0%	-1.5%	-6.7%
I-66 @ MM72 (Fairfax Dr), WB	1.8%	0.4%	3.0%	2.0%	-1.4%

# Traffic Condition Assessment

## Weekday Congestion Scans in Surge 11 (Ongoing)



# Traffic Assessment Findings

## Some of the findings:

- Impacts to I-66, Dulles Toll Road, and I-395
- AM traffic is affected more significantly than PM
- Impacts to arterial roadways are generally insignificant
- Generally speaking, impacts to weekend traffic is minimum
- Other factors such as traffic incidents, which could impact traffic conditions

## Traffic impacts appear decreasing over time:

- Robust public outreach for SafeTrack
- More travelers adjust their travel plans, choose to tele-commute or alternate their work schedule
- Change transportation mode