

* Work Truck with Arrow Panel Required. Truck Mounted Attenuator required when the posted speed limit is 45 MPH or greater.

DURATION NOTES

- SIGNS AND BUFFER SPACE MAY BE OMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
1. WORK OPERATIONS ARE 60 MINUTES OR LESS.
 2. SPEED LIMIT IS 35 MPH OR LESS.
 3. NO SIGHT OBSTRUCTIONS TO VEHICLES APPROACHING THE WORK AREA FOR A DISTANCE EQUAL TO THE BUFFER SPACE AND THE TAPER LENGTH COMBINED.
 4. VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY, ROTATING, FLASHING, OSCILLATION OR STROBE LIGHTS OPERATING.
 5. A SECOND WORK TRUCK IS REQUIRED TO BE LOCATED BETWEEN THE WORK TRUCK/ATTENUATOR AND THE 50'-100' TRUCK TO WORK ZONE SPACING.
 6. VOLUME AND COMPLEXITY OF THE ROADWAY HAS BEEN CONSIDERED.

- SIGNS, CHANNELING DEVICES, TRAILER MOUNTED ARROW PANEL AND BUFFER SPACE MAY BE OMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
1. WORK OPERATIONS ARE 15 MINUTES OR LESS OR CLASSIFIED AS A MOBILE OPERATION AS DEFINED BY THE VIRGINIA WORK AREA PROTECTION MANUAL.
 2. REQUIREMENT No.'s 2 - 6 ABOVE ARE SATISFIED.

GENERAL NOTES

1. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE PROHIBITED FROM THE LANE AREAS RESERVED FOR TRAFFIC.
2. WORK OPERATIONS SHALL BE CONFINED TO ONE CENTER TRAVEL LANE, LEAVING THE ADJACENT TRAVEL LANES OPEN TO TRAFFIC.
3. THE MERGING TAPER SHALL DIRECT VEHICULAR TRAFFIC INTO EITHER THE RIGHT LANE OR LEFT LANE, BUT NOT BOTH.
4. WHEN VEHICLES IN A PARKING ZONE BLOCK THE LINE OF SIGHT TO THE TRAFFIC CONTROL SIGNS, THE SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
5. IF THE WORK ZONE EXTENDS ACROSS A CROSSWALK, THE CROSSWALK SHALL BE CLOSED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
6. FOR GENERAL WORK AREA TRAFFIC CONTROL REQUIREMENTS AND ADDITIONAL INFORMATION REFER TO THE VIRGINIA WORK AREA PROTECTION MANUAL.

CHANNELIZING DEVICE SPACING		
LOCATION	SPEED (MPH)	
	0-35	36+
TRANSITION SPACING	20'	40'
TRAVELWAY SPACING	40'	80'

DISTANCE BETWEEN SIGNS		
SPEED	SPACING (FT)	
	A	B
40 MPH OR LESS	200	200
45 MPH	350	350

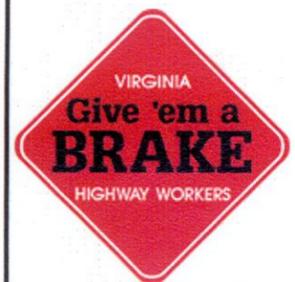
BUFFER SPACE AND TAPER LENGTH			
SPEED (MPH)	BUFFER SPACE (FT)	TAPER LENGTH (12' LATERAL TRANSITION)	
		LENGTH (FT)	NOTES (MERGE)
25	155	125	$L = \frac{WS^2}{60}$
30	200	180	
35	250	245	
40	305	320	L = WS
45	360	540	

WHEN BUFFER SPACE CANNOT BE ATTAINED DUE TO GEOMETRIC CONSTRAINTS, THE GREATEST ATTAINABLE LENGTH SHALL BE USED, BUT NOT LESS THAN 200 FEET (ROADS POSTED 35 MPH OR GREATER).

FOR LATERAL TRANSITIONS OTHER THAN 12' USE FORMULA FOR L SHOWN IN THE NOTES COLUMN.
 WHERE:
 L=LENGTH OF TAPER IN FEET
 W= WIDTH OF LATERAL TRANSITION IN FEET
 S= POSTED SPEED LIMIT (MPH)

SYMBOLS

- ARROW PANEL
- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC CONTROL SIGN
- WORK SPACE



APPROVED

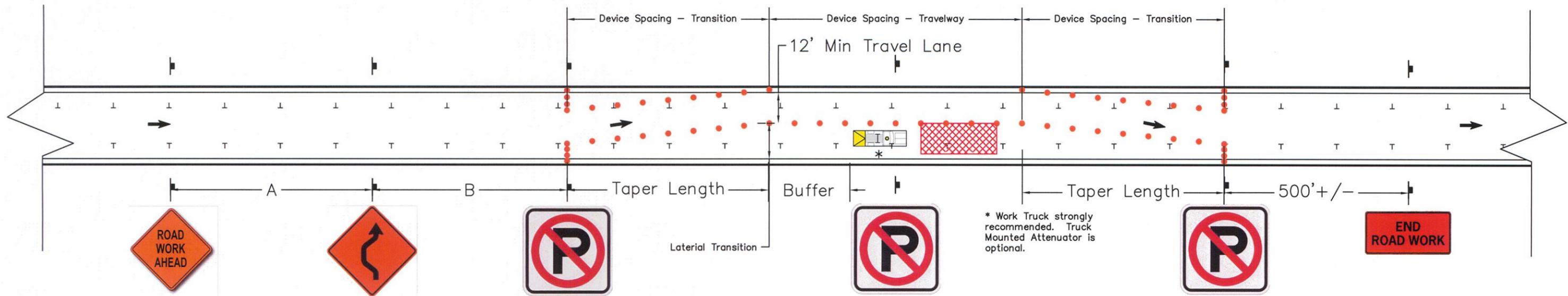
 JULY 21, 2009
 DIRECTOR OF ENGINEERING DATE

JOB TITLE
 NEWPORT NEWS TRAFFIC CONTROL STANDARD
 URBAN CENTER LANE CLOSURE
 ON SIX LANE FACILITIES

CITY OF NEWPORT NEWS
 DEPARTMENT OF ENGINEERING
 2400 WASHINGTON AVE. NEWPORT NEWS, VA.
 8th FLOOR PHONE: 926-8611

DATE	REVISIONS

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 NN-1



DURATION NOTES

- SIGNS AND BUFFER SPACE MAY BE OMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
- WORK OPERATIONS ARE 60 MINUTES OR LESS.
 - NO SIGHT OBSTRUCTIONS TO VEHICLES APPROACHING THE WORK AREA FOR A DISTANCE EQUAL TO THE BUFFER SPACE AND THE TAPER LENGTH COMBINED.
 - VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY, ROTATING, FLASHING, OSCILLATION OR STROBE LIGHTS OPERATING.
 - VOLUME AND COMPLEXITY OF THE ROADWAY HAS BEEN CONSIDERED.

GENERAL NOTES

- THIS TYPICAL SHALL ONLY BE USED FOR STREETS POSTED AT 25 MPH OR LESS AND HAVING NO MORE THAN 1500 VEHICLES PER DAY TRAFFIC VOLUMES.
- ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE PROHIBITED FROM THE LANE AREAS RESERVED FOR TRAFFIC.
- WHEN VEHICLES IN A PARKING ZONE BLOCK THE LINE OF SIGHT TO THE TRAFFIC CONTROL SIGNS, THE SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- FOR GENERAL WORK AREA TRAFFIC CONTROL REQUIREMENTS AND ADDITIONAL INFORMATION REFER TO THE VIRGINIA WORK AREA PROTECTION MANUAL.
- NO PARKING SIGNS ARE TO BE INSTALLED BY THE DEPARTMENT OF ENGINEERING, CONTACT THE OPERATIONS SUPERINTENDENT AT (757) 269-2460 THREE (3) WORKING DAYS PRIOR TO ROAD CLOSURE WORK MINIMUM.

CHANNELIZING DEVICE SPACING	
LOCATION	SPEED (MPH)
TRANSITION SPACING	0-25
TRAVELWAY SPACING	20'
	40'

DISTANCE BETWEEN SIGNS		
SPEED	SPACING (FT)	
	A	B
25 MPH OR LESS	100	100

BUFFER SPACE AND TAPER LENGTH			
SPEED (MPH)	BUFFER SPACE (FT)	TAPER LENGTH (12' LATERAL TRANSITION)	
		DIST. (FT)	LENGTH (FT)
25	155	125	NOTES (MERGE)
			$L = \frac{WS^2}{60}$

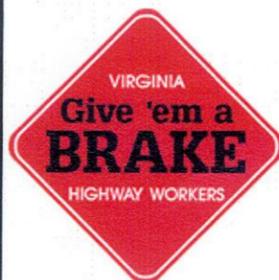
BUFFER SPACE IS STRONGLY ADVISED BUT OPTIONAL FOR THIS TYPICAL TRAFFIC CONTROL SET UP.

FOR LATERAL TRANSITIONS OTHER THAN 12' USE FORMULA FOR L SHOWN IN THE NOTES COLUMN.

WHERE:
 L=LENGTH OF TAPER IN FEET
 W= WIDTH OF LATERAL TRANSITION IN FEET
 S= POSTED SPEED LIMIT (MPH)

SYMBOLS

- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC CONTROL SIGN
- WORK SPACE



APPROVED

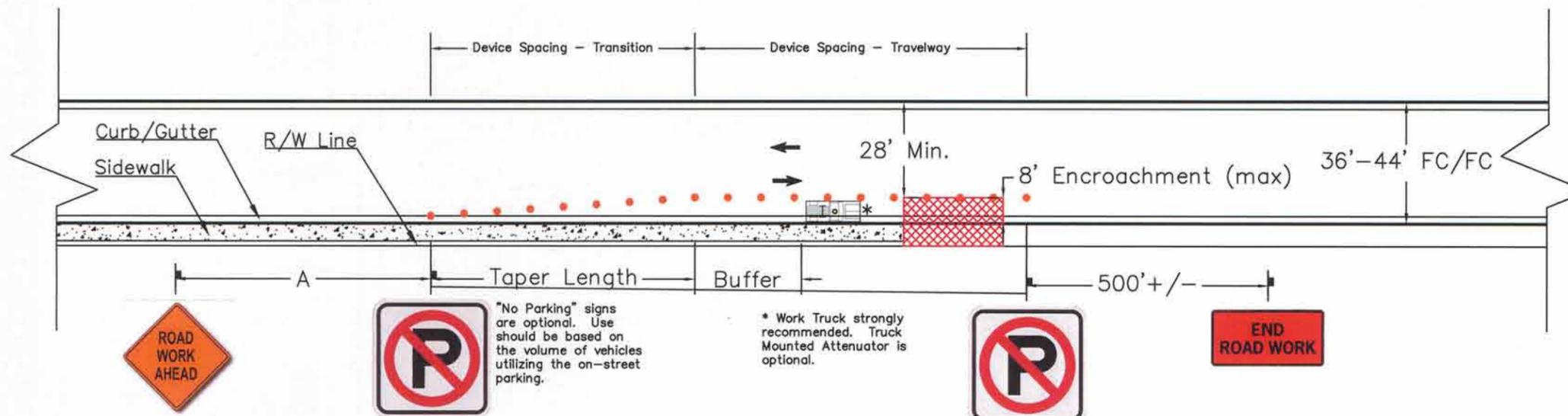
 JULY 28, 2009
 DIRECTOR OF ENGINEERING DATE

JOB TITLE
 NEWPORT NEWS TRAFFIC CONTROL STANDARD
 PARTIAL STREET CLOSURE
 ON SINGLE ONE WAY STREET W/PARKING

CITY OF NEWPORT NEWS
 DEPARTMENT OF ENGINEERING
 2400 WASHINGTON AVE. NEWPORT NEWS, VA.
 8th FLOOR PHONE: 926-8611

DATE	REVISIONS

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GENERAL NOTES

- THIS TYPICAL SHALL ONLY BE USED FOR STREETS POSTED AT 35 MPH OR LESS.
- ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE PROHIBITED FROM THE LANE AREAS RESERVED FOR TRAFFIC.
- WHEN VEHICLES IN A PARKING ZONE BLOCK THE LINE OF SIGHT TO THE TRAFFIC CONTROL SIGNS, THE SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL.
- WHERE SIDEWALK IS PRESENT, THE SIDEWALK SHALL BE CLOSED AND PEDESTRIAN TRAFFIC REROUTED IN ACCORDANCE WITH TTC-24.0 "SIDEWALK CLOSURE" (VIRGINIA WORK AREA PROTECTION MANUAL - 2005 EDITION). THE SIDEWALK "BYPASS OPERATION" IS NOT APPROPRIATE FOR THIS SET UP.
- IF WORKERS OR CONSTRUCTION EQUIPMENT REQUIRE MORE THAN THE 8' PERMISSIBLE, A TEMPORARY LANE CLOSURE IN ACCORDANCE WITH TA-18 "LANE CLOSURE ON A MINOR STREET" (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - 2009 EDITION) OR OTHER APPROPRIATE VWAPM TRAFFIC CONTROL DETAIL SHALL BE REQUIRED.
- FOR GENERAL WORK AREA TRAFFIC CONTROL

REQUIREMENTS AND ADDITIONAL INFORMATION REFER TO THE VIRGINIA WORK AREA PROTECTION MANUAL.

- NO PARKING SIGNS (IF REQUIRED) ARE TO BE INSTALLED BY THE DEPARTMENT OF ENGINEERING, CONTACT THE OPERATIONS SUPERINTENDENT AT (757) 269-2460 THREE (3) WORKING DAYS MINIMUM PRIOR TO ROAD ENCROACHMENT ACTIVITIES.

DURATION NOTES

- SIGNS AND BUFFER SPACE MAY BE OMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
- WORK OPERATIONS ARE 60 MINUTES OR LESS AND DURING DAYLIGHT HOURS.
 - NO SIGHT OBSTRUCTIONS TO VEHICLES APPROACHING THE WORK AREA FOR A DISTANCE EQUAL TO THE BUFFER SPACE AND THE TAPER LENGTH COMBINED.
 - VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY, ROTATING, FLASHING, OSCILLATION OR STROBE LIGHTS OPERATING.
 - VOLUME AND COMPLEXITY OF THE ROADWAY HAS BEEN CONSIDERED.

CHANNELIZING DEVICE SPACING	
LOCATION	SPEED (MPH)
TRANSITION SPACING	0-35
TRAVELWAY SPACING	20'
	40'

DISTANCE BETWEEN SIGNS	
SPEED	SPACING - A (FT)
25 MPH OR LESS	100
30-35 MPH	225

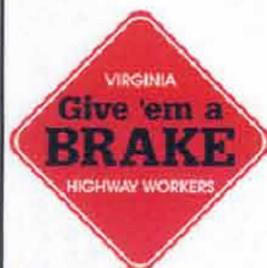
BUFFER SPACE AND TAPER LENGTH			
SPEED (MPH)	BUFFER SPACE (FT)	TAPER LENGTH (8' LATERAL TRANSITION)	
		DIST. (FT)	LENGTH (FT)
25	155	30	$L = \frac{WS^2}{180}$
30	200	40	
35	250	55	

SYMBOLS

- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC
- WORK VEHICLE
- TRAFFIC CONTROL SIGN
- WORK SPACE

BUFFER SPACE IS STRONGLY ADVISED BUT OPTIONAL FOR THIS TYPICAL TRAFFIC CONTROL SET UP.

FOR LATERAL TRANSITIONS OTHER THAN 8' USE FORMULA FOR L SHOWN IN THE NOTES COLUMN.
 WHERE:
 L=LENGTH OF TAPER IN FEET
 W= WIDTH OF LATERAL TRANSITION IN FEET
 S= POSTED SPEED LIMIT (MPH)



APPROVED: DATE: June 1, 2011
 DIRECTOR OF ENGINEERING

JOB TITLE: NEWPORT NEWS TRAFFIC CONTROL STANDARD
 R/W WORK WITH MINOR ENCROACHMENT ON STD. CURB/GUTTER
 RESIDENTIAL NEIGHBORHOOD STREET W/ON-STREET PARKING

CITY OF NEWPORT NEWS
 DEPARTMENT OF ENGINEERING
 2400 WASHINGTON AVE. 8th FLOOR
 NEWPORT NEWS, VA. PHONE: 926-8611

DATE	REVISIONS

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