

SIGN SPACING = X (FEET) (1)		
FREEWAYS & EXPRESSWAYS	55/70 mph	1500ft +/-
RURAL HIGHWAYS	60/65 mph	800ft +/-
RURAL ROADS	45/55 mph	500ft +/-
RURAL ROADS and URBAN ARTERIALS	35/40 mph	350ft +/-
RURAL ROAD, URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25/30 mph	200ft +/- (2)
URBAN STREETS	25mph or less	100ft +/- (2)

ALL SIGNS ARE 48" x 48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED
 (1) All spacing may be adjusted to accommodate interchange ramps, at-grade intersections, and driveways.
 (2) This spacing may be reduced in urban areas to fit roadway conditions.

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

LONGITUDINAL BUFFER SPACE = B

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (ft)
4 YARD DUMP TRUCK SERVICE TRUCK FLAT BED, ETC	MINIMUM WEIGHT 18000 LBS (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION)	30 MIN. 100 max.

ROLL AHEAD STOPPING DISTANCE ASSUMES DRY PAVEMENT

A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS AND NO ROLL AHEAD DISTANCE IS SPECIFIED. REFER TO CHAPTER 1.5.5 FOR ADDITIONAL INFORMATION

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (mph)	25	30	35	40	45	50	55	60	65	70
LENGTH (ft)	155	200	250	305	360	425	495	570	645	730

CHANNELIZING DEVICE SPACING CHART (FEET)

mph	*Half-Spacing*	TAPER	TANGENT
50/70	20	40	80
35/45	N/A	30	60
20/30	N/A	20	40

MERGING, SHIFTING, and SHOULDER TAPER LENGTHS and NUMBER OF CHANNELIZATION DEVICES USED														
Lane width	10ft LANE			11ft LANE			12ft LANE			SHOULDER TAPERS (assume 10ft shoulders)				
	L	1/2L	Devs	L	1/2L	Devs	L	1/2L	Devs	MPH	FT	Devs	MPH	FT
20	70	35	3	75	38	3	80	40	3	20	25	3	20	25
25	105	53	4	115	58	4	125	63	4	25	30	4	25	30
30	150	75	5	165	83	5	180	90	5	30	35	5	30	35
35	205	103	6	225	113	6	245	123	6	35	40	6	35	40
40	270	135	7	295	148	7	320	160	7	40	45	7	40	45
45	340	170	8	375	188	8	400	200	8	45	50	8	45	50
50	410	205	9	450	225	9	480	240	9	50	55	9	50	55
55	485	243	10	525	263	10	560	280	10	55	60	10	55	60
60	560	280	11	600	300	11	640	320	11	60	65	11	60	65
65	635	318	12	675	338	12	720	360	12	65	70	12	65	70
70	710	355	13	750	375	13	800	400	13	70	75	13	70	75

Shoulder tapers equals shoulder width x Speed/2

Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length
Merging Taper	at least L
Shifting Taper	at least 0.5 L
Shoulder Taper	at least 0.33 L
One-Lane, Two-Way Traffic Taper	50 Feet Minimum, 100 Feet maximum
Downstream Taper	50 Feet Minimum, 100 Feet maximum

MINIMUM TAPER LENGTH = L (feet)										
Lane width (feet)	POSTED SPEED (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	340	410	485	560	635	710
11	115	165	225	295	375	450	525	600	675	750
12	125	180	245	320	400	480	560	640	720	800

Travel lanes shall be a minimum of 11' wide at all times.

The applicant shall notify property owner(s) of blocked driveway(s) at least 24 hours in advance.

Portable changeable message signs shall be posted at least 72 hours in advance of work start date notifying travelers of impending road work and traffic impacts.

Prince telecom
telecommunications
installation
Angelique Loiselle
253-259-6359
JOB # CSG501402

NORTH



NOT TO SCALE

PRFUP20250178

Work shall immediately cease in the work zone for a pedestrian spotter, available at all times, to escort pedestrians around the work area.

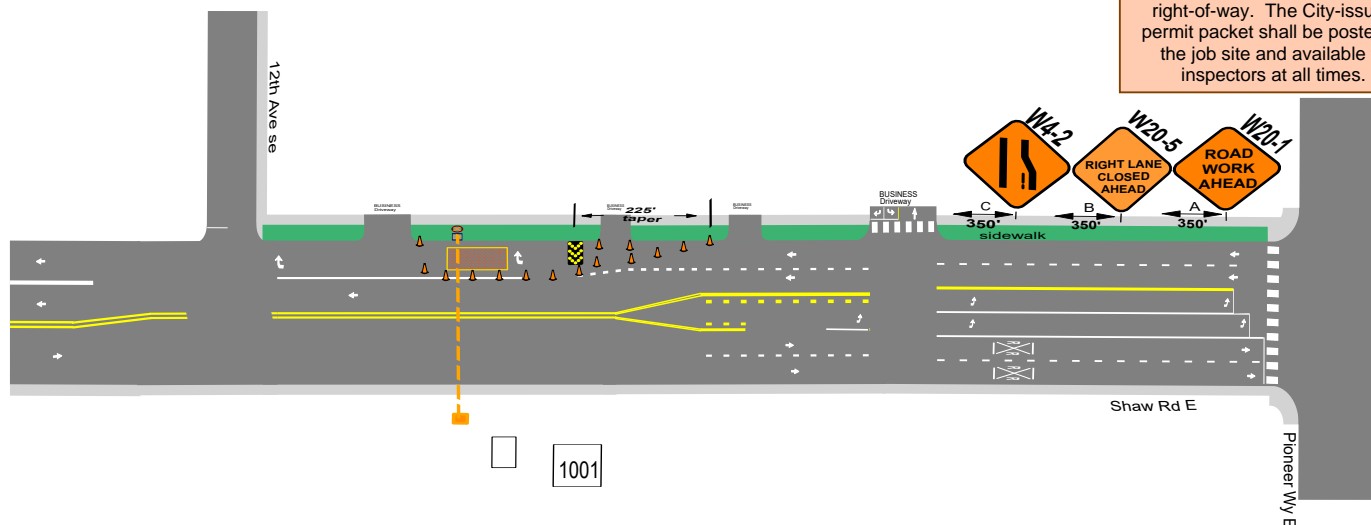
NOTES :

- Driveways will not be blocked during Business hours
- Sidewalk shall remain open

Minimum 10' Lanes

NIGHT WORK REQUIRED.
ROAD WORK ALLOWED:
Sunday - Thursday
9PM - 5AM
Call communications center at 253-287-4456 on night of work. Request a job start inspection through the CityView portal and leave a message for the inspectors by calling 253-435-3650 at least 48 hours in advance of job start.

The applicant shall notify all residents and businesses within 300 feet of the work area 48 hours in advance of start date by distributing informational door hangers, displaying work on message boards, or on signs posted visibly along the right-of-way. The City-issued permit packet shall be posted at the job site and available to inspectors at all times.



Vehicle
Equipment
Staging

Pole
Tie in
point

Bore
Pit

New
Flush

Lighted
arrow board

cones -
ROW
Bore line

Kenny Stertz

KENNY'S TRAFFIC ZONE PLANS

TRAFFIC CONTROL PLAN PREPARATION
PH # 425-223-7688
TRAFFICPLAN@AOL.COM
Longwood, VA

KENNY STERTZ
TRAFFIC CONTROL SUPERVISOR

Washington
JOB 10010416
D.O.B. 02/29/2008

Chargent
JOB 05338
5/31/2027

SIGN SPACING = X (FEET) (1)		
FREEWAYS & EXPRESSWAYS	55/70 mph	1500ft +/-
RURAL HIGHWAYS	60/65 mph	800ft +/-
RURAL ROADS	45/55 mph	500ft +/-
RURAL ROADS and URBAN ARTERIALS	35/40 mph	350ft +/-
RURAL ROAD, URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25/30 mph	200ft +/- (2)
URBAN STREETS	25mph or less	100ft +/- (2)

ALL SIGNS ARE 48" x 48" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED

(1) All spacing may be adjusted to accommodate interchange ramps, at-grade intersections, and driveways.
(2) This spacing may be reduced in urban areas to fit roadway conditions.

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE		
LONGITUDINAL BUFFER SPACE = B		
TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (ft)
4 YARD DUMP TRUCK SERVICE TRUCK FLAT BED, ETC	MINIMUM WEIGHT 1000 LBS MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION	30 MIN. 100 max.
ROLL AHEAD STOPPING DISTANCE ASSUMES DRY PAVEMENT		

A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS AND NO ROLL AHEAD DISTANCE IS SPECIFIED. REFER TO CHAPTER 1.5.5 FOR ADDITIONAL INFORMATION

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (mph)	25	30	35	40	45	50	55	60	65	70
LENGTH (ft)	155	200	250	305	360	425	495	570	645	730

CHANNELIZING DEVICE SPACING CHART (FEET)			
mph	*Half-Spacing*	TAPER	TANGENT
50/70	20	40	80
35/45	N/A	30	60
20/30	N/A	20	40

MERGING, SHIFTING, and SHOULDER TAPER LENGTHS and NUMBER OF CHANNELIZATION DEVICES USED											
Lane width	10ft LANE			11ft LANE			12ft LANE			SHOULDER TAPERS (minimum 100' shoulders)	
	L	1/2L	1/3L	L	1/2L	1/3L	L	1/2L	1/3L	1/3L	1/3L
MPH	Merging	Shifting	Shifting	Merging	Shifting	Shifting	Merging	Shifting	Shifting	MPH	Shifting
20	70	6	35	75	6	40	80	6	40	20	25
25	105	6	55	115	7	60	125	7	65	25	35
30	150	8	75	165	9	85	180	10	90	30	50
35	205	8	105	225	9	115	245	9	125	35	70
40	270	10	135	295	11	150	320	12	160	40	90
45	450	16	225	495	18	250	540	19	270	45	150
50	500	14	250	550	15	285	600	16	300	50	170
55	550	15	275	605	16	305	660	18	330	55	185
60	600	16	300	660	18	330	720	19	360	60	200
65	650	17	325	715	19	370	780	21	390	65	220
70	700	19	350	770	20	385	840	22	420	70	235

Shoulder tapers equals shoulder width x Speed³

Taper Length Criteria for Temporary Traffic Control Zones	
Type of Taper	Taper Length
Merging Taper	at least L
Shifting Taper	at least 0.5 L
Shoulder Taper	at least 0.33 L
One-Lane, Two-Way Traffic Taper	50 Feet Minimum, 100 Feet maximum
Downstream Taper	50 Feet Minimum, 100 Feet maximum

MINIMUM TAPER LENGTH = L (feet)	
LANE WIDTH (feet)	POSTED SPEED (mph)
10	25 30 35 40 45 50 55 60 65 70
11	105 150 205 270 450 500 550 605 660 720 780 840
12	125 180 245 320 540 600 660 720 780 840

Travel lanes shall be a minimum of 11' wide at all times.

The applicant shall notify property owner(s) of blocked driveway(s) at least 24 hours in advance.

Portable changeable message signs shall be posted at least 72 hours in advance of work start date notifying travelers of impending road work and traffic impacts.

Prince telecom
telecommunications
installation
Angelique Loiselle
253-259-6359
JOB # CSG501402

NORTH



NOT TO SCALE

PRFUP20250178

Work shall immediately cease in the work zone for a pedestrian spotter, available at all times, to escort pedestrians around the work area.

NOTES :

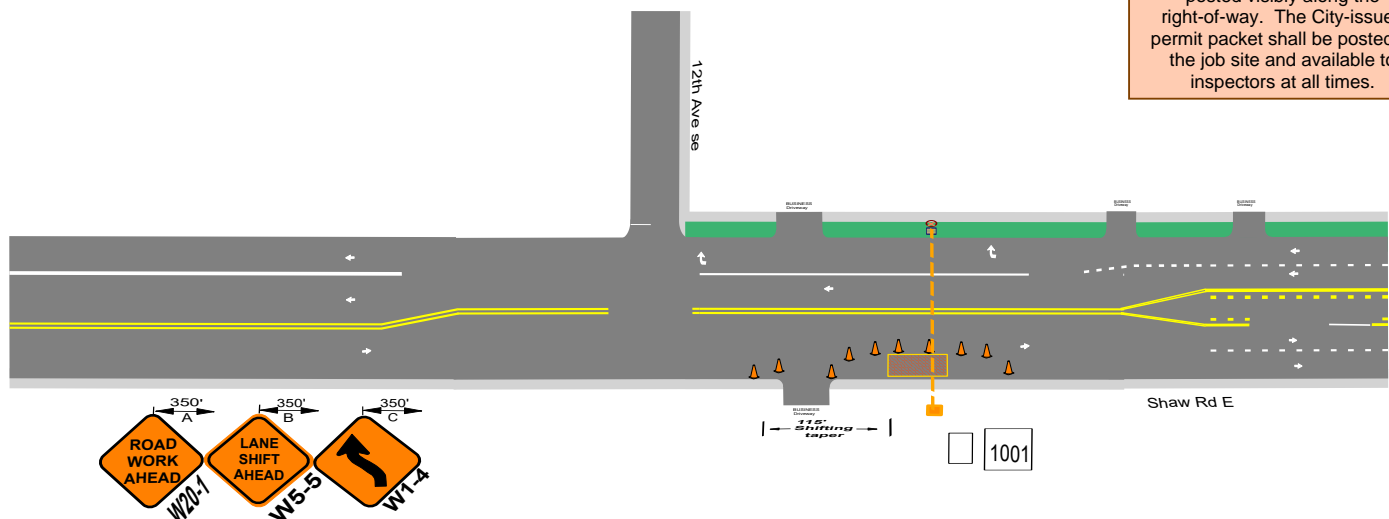
- Driveways will not be blocked during Business hours
- Sidewalk shall remain open

~~Minimum 10' Lanes~~

NIGHT WORK REQUIRED.
ROAD WORK ALLOWED:
Sunday - Thursday
9PM - 5AM

Call communications center at 253-287-4456 on night of work. Request a job start inspection through the CityView portal and leave a message for the inspectors by calling 253-435-3650 at least 48 hours in advance of job start.

The applicant shall notify all residents and businesses within 300 feet of the work area 48 hours in advance of start date by distributing informational door hangers, displaying work on message boards, or on signs posted visibly along the right-of-way. The City-issued permit packet shall be posted at the job site and available to inspectors at all times.



Vehicle
Equipment
Staging

Pole
Tie in
point

Bore
Pit

New
Flush

cones -
ROW
Bore line

Kenny Stertz

KENNY'S TRAFFIC ZONE PLANS

TRAFFIC CONTROL PLAN PREPARATION
PH # 425-223-7688
TRAFFICPLAN@AOL.COM
Longwood, Va

KENNY STERTZ
TRAFFIC CONTROL SUPERVISOR

Wheatington 10/16/2016 10/16/2016
C.D.R. 03/29/2008

STOP