

# TRAFFIC CONTROL PLAN

## SHORT TERM STATIONARY WORK ZONE FOR UNDERGROUND WORK

SIGN SPACING = X(1)		
FREEWAYS & EXPRESSWAYS	55/70 MPH	1500' + - (OR AS PER MUTCD)
RURAL HIGHWAYS	60/65 MPH	800' + -
RURAL ROADS	45/55 MPH	500' + -
RURAL ROADS & URBAN ARTERIALS	35/40 MPH	350' + -
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200' + - (2)
URBAN STREETS	25 MPH OR LESS	100' + - (2)

ALL SIGNS ARE 36" x 36" BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.  
 (1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS, AND DRIVEWAYS.  
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

BUFFER DATA											
LONGITUDINAL BUFFER SPACE = B											
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70	
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730	
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R						HOST VEHICLE WEIGHT					
						9,900 TO 22,000 lbs.			> 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH						
100'	123'	172'	74'	100'	150'						
PROTECTIVE VEHICLE (WORK VEHICLE) = R											
NO SPECIFIED DISTANCE REQUIRED											

CHANNELIZING DEVICE SPACING (FEET)		
MPH	TAPER *	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

\*FOR ONE-LANE, TWO-WAY AND DOWNSTREAM TAPERS, 20 FOOT DEVICE SPACING SHALL BE USED AT ALL SPEEDS.

**CLOSURE ALLOWED:** Monday - Thursday 10AM - 2PM  
 Call communications center at 253-287-4456 on day of closure.  
 The permit and traffic control plans shall be posted at the job site and available to inspectors at all times.

TERRY CROMWELL  
 TRAFFIC CONTROL SUPERVISOR  
 TCS#013005  
 EXPIRES 10/31/2025  
 APPROVED 10/07/2021  
 206.793.0637  
 TCROMWELL@FIBESOLUTIONS.COM  
 TERRY CROMWELL

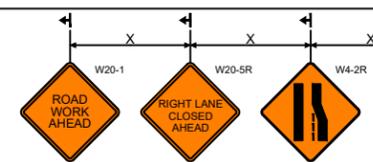
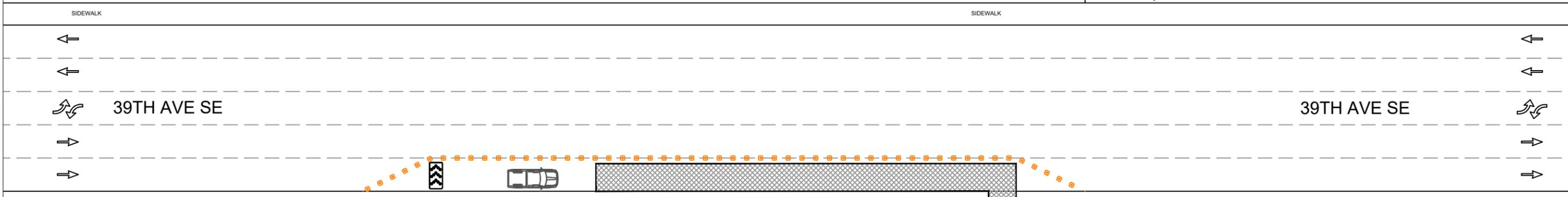
TYPE OF WORK:  
 UNDERGROUND/ WORK  
 WORK HOURS:  
 M-F 7AM-5PM

Lane Taper Length =  
 $(\text{width of taper offset}) \times (\text{speed limit})^2$   
 (width of taper typically measured as width of lane)

City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

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



- Traffic control devices shall be 28 inch retro-reflective cones.
- Taper length equals width of offset times speed limit squared divided by 60.
- Sign spacing shall be 100 feet when speed limit is 30 mph or less.
- Sign spacing shall be 350 feet when speed limit is greater than 30 mph.
- Distance between cones equals speed limit in unit-feet.
- Travel lane width must be a minimum of 11 feet at all times.
- All flaggers and spotters shall remain in radio contact at all times.

MINIMUM TAPER LENGTH IN FEET (L)																
LANE WIDTH	10 FEET				11 FEET				12 FEET				SHOULDER TAPERS (ASSUMES 10' SHOULDERS)			
	L		L/2		L		L/2		L		L/2		MPH	(FT) LENGTH	DEVICES	
MPH	MERGING	DEVICES	SHIFTING	DEVICES	MERGING	DEVICES	SHIFTING	DEVICES	MERGING	DEVICES	SHIFTING	DEVICES	MPH	(FT) LENGTH	DEVICES	
20	70	5	35	3	75	5	40	3	80	5	40	3	20	25	3	
25	105	6	55	4	115	7	60	4	125	7	65	4	25	35	3	
30	150	8	75	5	165	9	85	5	180	10	90	5	30	50	3	
35	205	8	105	5	225	9	115	5	245	9	125	5	35	70	4	
40	270	10	135	6	295	11	150	6	320	12	160	6	40	90	4	
45	450	16	225	9	495	18	250	9	540	19	270	10	45	150	6	
50	500	14	250	8	550	15	275	8	600	16	300	9	50	170	6	
55	550	15	275	8	605	16	305	9	660	18	330	9	55	185	6	
60	600	16	300	9	660	18	330	9	720	19	360	10	60	200	6	
65	650	17	325	9	715	19	370	10	780	21	390	11	65	220	7	
70	700	19	350	10	770	20	385	11	840	22	420	12	70	235	7	

- GENERAL NOTES:**
- ALL WORK TO BE PERFORMED DURING DAYTIME HOURS, UNLESS TRAFFIC VOLUMES OR MUNICIPALITY DICTATE OTHERWISE.
  - ALL SIGNS ARE 48"x48" BLACK ON FLUORESCENT ORANGE UNLESS OTHERWISE NOTED.
  - PEDESTRIANS WILL BE ACCOMMODATED THROUGH THE WORK ZONE AS NEEDED BY A SPOTTER.
  - ALL DRIVEWAY ACCESS SHALL REMAIN OPEN DURING DURATION OF WORK.
  - ALL SIDEWALKS SHALL REMAIN OPEN DURING DURATION OF WORK.
  - TRAFFIC SHALL NOT BE STOPPED IN ANY ONE DIRECTION FOR MORE THAN 10 MINUTES.
  - LOCAL PATROL OFFICER TO ASSIST WITH TRAFFIC CONTROL WILL BE REQUIRED.
  - RESIDENTIAL DRIVEWAY ACCESS SHALL NOT BE BLOCKED DURING CONSTRUCTION.

12/08/21	FS-KMK	Designed
12/08/21	FS-CRV	Drafted
12/08/21	FS-KMK	Checked

**PERMIT PH-1 TCP**



# TRAFFIC CONTROL PLAN

## SHORT TERM STATIONARY WORK ZONE FOR UNDERGROUND WORK

PRFUP2022006

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### BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

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

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R

HOST VEHICLE WEIGHT	45-55 MPH	> 55 MPH	45-55 MPH	> 55 MPH
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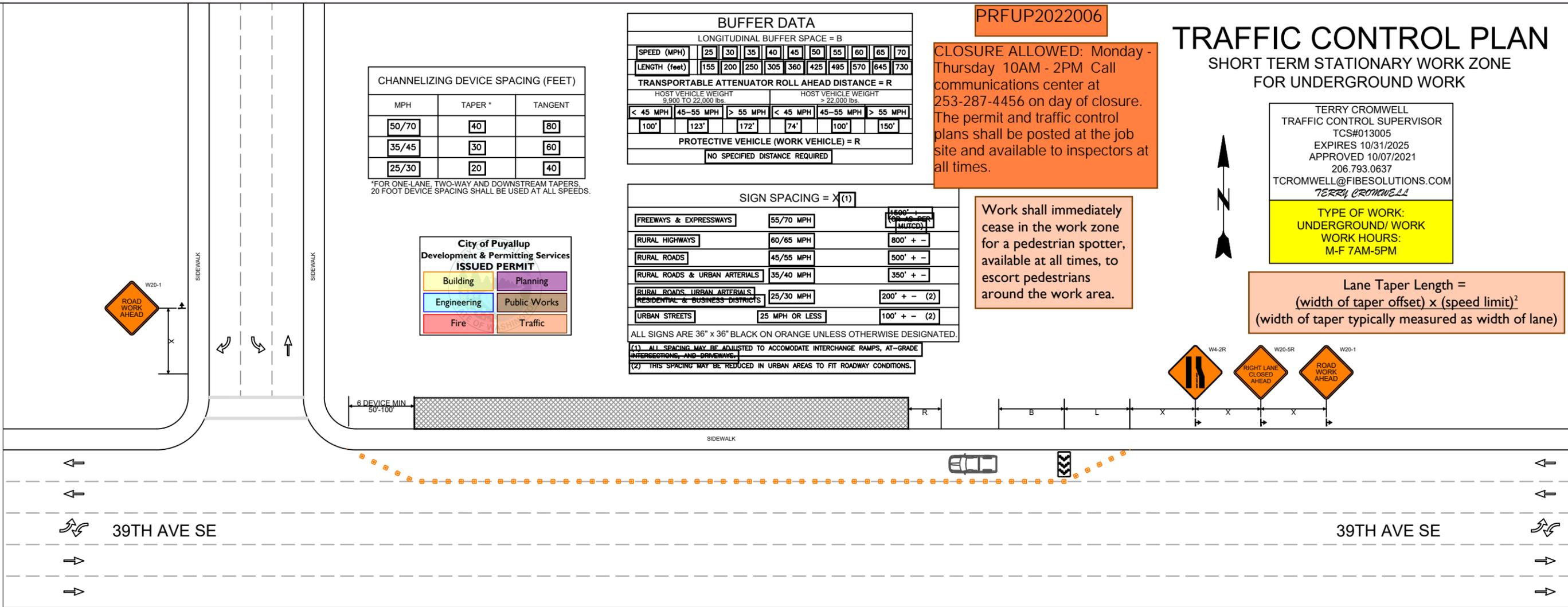
### SIGN SPACING = X(1)

ROAD TYPE	SPEED	SPACING
FREWAYS & EXPRESSWAYS	55/70 MPH	1,500' (MUTCD)
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SHOULDER TAPER EQUALS SHOULDER WIDTH x SPEED/5

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JOB #: 100003  
 ENGR: FIBE SOLUTIONS

**PROPRIETARY-NOT FOR DISTRIBUTION**

**ISO-0539048 - CENTERIS DATA CENTER**

File name: ISO-0539048.dwg  
 Date: 12/08/21

Sheet Number: **2 of 2**