Traffic Control Standards

- 1. All traffic control applications and devices are to be pursuant to the Manual on Uniform Traffic Control Devices (MUTCD), current edition.
- 2. All traffic control signs are to be 36" x 36" with orange background and black lettering (30" x 30" okay on streets classified as "Local").
- 3. A minimum of three traffic control signs is required in all directions on residential streets adjacent to, or around the corner from, the job site. A minimum of four traffic control signs is required in all directions on arterial streets and state routes adjacent to, or around the corner from, the job site. The City of Puyallup reserves the right to require additional signage depending on the scope of work and the location of the project.
- 4. In all instances, cones must be orange in color, 28 inches tall, and have two (2) retroreflective bands.
- 5. Distance between signs is per MUTCD Table 6C-1.
- 6. The City of Puyallup reserves the right to adjust approved traffic control plans as needed during the project.

Typical Elements for Traffic Control Plan Submittals

The following is a list of typical elements that should be included in traffic control plans submitted for review. Incorporating these elements into the plan will help reduce delay in the review process and reduce the need for possible re-submittal of the plans.

Traffic Control Plans should contain the following information:

- A clear and accurate plan view representation of the streets and the intersection where the temporary traffic control plan will be implemented. Should include the following:
 - 1. Street names
 - 2. Lane configurations
 - 3. Existing channelization devices (include pavement markings such as crosswalks)
 - 4. Traffic signals
- Clearly indicate the active work area and the proposed temporary channelization device set up.
- Include a legend indicating symbols used to represent various traffic control device elements
- Clearly indicate the temporary signing to be used. Label sign by appropriate signs code as
 per MUTCD, and include size and color of signs (Size and color can be referenced in the
 general notes shown on the plan.). Using both a sign image and sign code will help
 clarify the appropriate sign intended.
- Clearly indicate sign spacing on plan, may reference a sign spacing chart on shown on
- Include channelization device spacing chart.
- Label all transition / taper lengths. Show lengths or reference lengths to a table included on plan.
- Label buffer lengths on plan. Indicate length or reference lengths to a table included on plan.

- As per RCW 47.36.200, include special warning signs for motorcycles (W21-1701 "Motorcycles Use Extreme Caution") if any of the following conditions exist at the work zone:
 - 1. Grooved Pavement
 - 2. Abrupt land edge
 - 3. Steel Plates
 - 4. Loosed material (such as gravel or dirt) on roadway
- Indicate approved work hours. Typical work hours are 9 am to 3pm unless otherwise approved.
- Include in general notes that a minimum of 11' lanes will be maintained.

APPROVED

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)											
LANE											
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70	
10	105	150	205	270	450	500	550	-	-	-	
11	115	165	225	295	495	550	605	660	-	-	
12	125	180	245	320	540	600	660	720	780	840	

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)

ı											
	SHOULDER WIDTH				Pos	ted Spo	ed (m	oh)			
	(feet)	25	30	35	40	45	50	55	60	65	70
	8'	40	40	60	90	120	130	150	160	170	190
	10'	40	60	90	90	150	170	190	200	220	240

SIGN SPACING = X (1)									
FREEWAYS & EXPRESSWAYS	55 / 70 MPH A	1500' ± (OR S 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 RESIDENTAL & BUSINESS DISTREICTS	25 / 30 MPH	200' ± (2)							
URBAN STREETS	25 MPH OR LESS	6 100' ± (2)							
(1) ALL SPACING MAY BE ADJUSTED TO A	ACCOMMODATE INT	ERCHANGE							

RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT

CHANNELIZATION DEVICE SPACING (feet)								
MPH	TAPER	TANGENT						
50/70	40	80						
35/45	30	60						
25/30	20	40						

RIGHT LANE

CLOSED

	BUFFER DATA PRI								20210)127
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
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. 30 FEET MIN. TO 100 FOOT MAX.										
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.									NO SPECIFIED DISTANCE REQUIRED	

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

CLOSURE ALLOWED: Monday - Friday 9AM - 3PM

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.

Lane closure duration can be modified at the full discretion of the City Inspector.

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

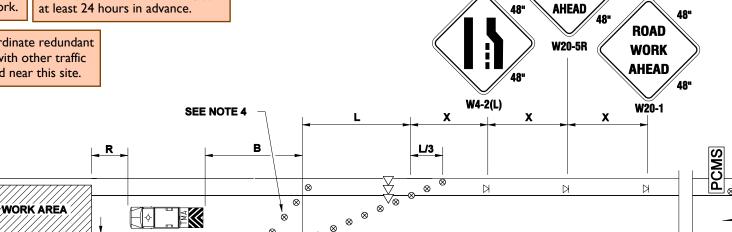
Call Jason Little, City Inspector, at 253-244-0387 prior to starting any work.

100'±

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

ROADWAY CONDITIONS.

The applicant shall coordinate redundant traffic control devices with other traffic control plans authorized near this site.



E MAIN

PCMS 2 1 RIGHT **BEGINING** LANE CLOSURE 1 MILE AHEAD 1.5 SEC 1.5 SEC

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

The applicant shall notify public transportation agencies whose routes or stops are affected by the traffic control plan 24 hours in advance of job start.

STEEL PLATE AHEAD and MOTORCYCLISTS USE EXTREME CAUTION advanced warning signs are required for steel plates installed in the public right-of-way.

-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.

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

2. EXTENDING DEVICE TAPER AT L/3 ACROSS SHOULDER IS RECOMMENDED.

3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.

4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'. (RECOMMENDED).

5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHOULD BE 20'.

6. ALL SIGNS ARE BLACK ON ORANGE.

SEQUENTIAL ARROW SIGN SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

TRANSPORTABLE ATTENUATOR **PCMS** PORTABLE CHANGEABLE MESSAGE SIGN

TEMPORARY SIGN LOCATION

TRAFFIC SAFETY DRUM

LEGEND

NOT TO SCALE

\$\$\$\$\$\$\$DESIGNFILENAME\$\$\$\$\$\$ FILE NAME FED.AID PROJ.NO. TIME \$TIME\$ \$\$\$\$DATE\$\$\$ DATE 10 WASH \$\$USERNAME\$\$ **PLOTTED BY** JOB NUM DESIGNED BY ENTERED BY **CHECKED BY** CONTRACT NO. LOCATION NO. PROJ. ENGR. REVISION DATE BY REGIONAL ADM.

Washington State Department of Transportation DATE

TC3 SHEET TRAFFIC CONTROL PLAN

APPROVED

SIGN SPACING = X (1)									
RURAL ROADS	45 / 55 MPH	500' ±							
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±							
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)							
RESIDENTAL & BUSINESS DISTREICTS									
URBAN STREETS	25 MPH OR LESS	100' ± (2)							
(1) ALL SPACING MAY BE ADJUSTED TO	ACCOMMODATE INTER	CHANGE							

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTER RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

WORK

AHEAD

W20-1

LEGEND

0

PCMS

	MINIMUM TAPER LENGTH = L (feet)										
LANE	Posted Speed (mph)										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70	
10	105	150	205	270	450	500	-	-	-		
11	115	165	225	295	495	550	-	-	-	-	
12	125	180	245	320	540	600	-	-	-	-	

CHANNELIZATION DEVICE SPACING (feet)								
MPH	TAPER	TANGENT						
50	40	80						
35/45	30	60						
25/30	20	40						

Call communications center at

253-287-4456 on night of closure.

Request an inspection through the

CityView portal a minimum of 48

hours in advance of job start.

The applicant shall notify all residents

and businesses within 300 feet of the

informational door hangers, displaying work on message boards, or on signs

posted visibly along the right-of-way.

The permit and traffic control plans

work area 48 hours in advance of

start date by distributing

LENGTH (feet)	155	200	250	305	360	425	_			L
BUFFE	R VEH	ICLE F	ROLL	AHEA	D DIST	TANCE	= R			
TRANSPORTABLE AT	TENUAT	OR						30	FFFT N	ΜI
MINIMUM HOST VEHICL BE IN ACCORDANCE WI		30 FEET MIN. TO 100 FOOT MAX.								
PROTECTIVE VEHIC	LE							NO	SPECIF	FIE
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.									DISTAN	~-

BUFFER DATA LONGITUDINAL BUFFER SPACE = B

40

45

50

55

35

- -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.

30

- -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.

Call Jason Little, City Inspector, at 253-244-0387 prior to starting any work.

SPEED (MPH)

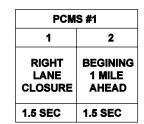
The applicant shall notify property owner(s) of blocked driveway(s) at least 24 hours in advance.

PRFUP20210127

65

70

60



FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCM	S #2
1	2
CENTER LANE CLOSED	NO LEFT TURNING
1.5 SEC	1.5 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- 1. PROTECTIVE VEHICLE RECOMMENDED MAY BE A WORK VEHICLE.
- 2. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- 3. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 5. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

			DEVICE SPACING 1/2	24" KEEP 30" RIGHT R4-7B B/W		ENTER LANE CLOSED AHEAD 48" W20-1 W20-5C	
	L/2		DISTANCE FOR OPPOSING	\	L/2 X	X N	2
	TAPER		TRAFFIC DEVICES		TAPER	၂ ၂ ၁	*
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	3000,000		WORK	9		E MAIN	
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₩ x x x x	L -	L MIN.	B R L		ane closure duration	NIGHT WORK RE	
	X	-			ne full discretion of	Sunday - Thui	
48"	~	400			ne City Inspector.	9PM - 5AI	

The applicant shall coordinate redundant

traffic control devices with other traffic

control plans authorized near this site.

in advance of job start.

The applicant shall notify public

transportation agencies whose

routes or stops are affected by

the traffic control plan 24 hours

shall be posted at the job site and signs are required for steel plates installed in available to inspectors at all times. the public right-of-way.

STEEL PLATE AHEAD and MOTORCYCLISTS

USE EXTREME CAUTION advanced warning

TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

W4-2(L)

RIGHT LANE

CLOSED

AHEAD

W20-5R

PORTABLE CHANGEABLE MESSAGE SIGN

TEMPORARY SIGN LOCATION

CHANNELIZING DEVICES

PROTECTIVE VEHICLE

SEQUENTIAL ARROW SIGN

NOT TO SCALE

RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY

Work shall immediately

cease in the work zone

for a pedestrian spotter,

available at all times, to

around the work area.

escort pedestrians

FILE NAME	S:\Design R P& S\4-Standard	s\2-Plan Sheet Library\10-Work zone plans (WZ)\TC-1-21\TC-1	0\TC-10.dgn				
TIME	8:38:08 AM				REGION NO.	STATE	FED.AID PROJ.NO.
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CHECKED BY					CONTI	RACT NO.	LOCATION NO.
PROJ. ENGR.							
REGIONAL ADM.		REVISION	DATE	BY			

W1-4(L)

Washington State Department of Transportation DATE

TC10 SHEET TRAFFIC CONTROL PLAN

4. FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3

INIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL ROTECTIVE VEHICLE MY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD Work shall immediately lease in the work zone or a pedestrian spotter, vailable at all times, to scort pedestrians round the work area. TO 100 FOOT MAX. NO SPECIFIED DISTANCE REQUIRED Call Jason Little, City Inspector, at 253-244-0387 prior to starting any work. The applicant shall owner(s) of blocke at least 24 hours in the work area. The applicant shall coordinate redundant traffic control devices with other traffic	SPEED (MPH) 25 30 35 40 45 50 55 60 65 70 LENGTH (feet) 155 200 250 305 360 425 BUFFER VEHICLE ROLL AHEAD DISTANCE = R RANSPORTABLE ATTENUATOR INIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL INIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL INIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL TO 100 FOOT MAX. ROTECTIVE VEHICLE AY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD Vork shall immediately lease in the work zone or a pedestrian spotter, vailable at all times, to scort pedestrians Call Jason Little, City Inspector, at 253-244-0387 prior to starting any work. The applicant shall owner(s) of blocked at least 24 hours in the pedestrians The applicant shall coordinate redundant			ı	BUFFE	R DA	ΓΑ					
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MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD TO 100 FOOT MAX. NO SPECIFIED DISTANCE REQUIRED Vork shall immediately lease in the work zone for a pedestrian spotter, vailable at all times, to escort pedestrians round the work area. To 100 FOOT MAX. The applicant shall owner(s) of blocker at least 24 hours in the strategical traffic control devices with other traffic.	MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA. Call Jason Little, City Inspector, at 253-244-0387 prior to starting any work. The applicant shall owner(s) of block at least 24 hours in the work area. The applicant shall coordinate redundant traffic control devices with other traffic	BUFFE	R VEHI	CLE	ROLL	AHEA	D DIST	TANCE	= R			•
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	control plans authorized near this site.	cease in the work or a pedestrian sp wailable at all time escort pedestrians	zone potter, es, to	In pr Th	spectorior to ne app	or, at 2 startii	53-24 ng any shall c	4-038 work oordin	ate re	vner(s least i dunda traffic	s) of b 24 ho ant	locke

LEGEND

0

PCMS

TEMPORARY SIGN LOCATION

PORTABLE CHANGEABLE MESSAGE SIGN

CHANNELIZING DEVICES SEQUENTIAL ARROW SIGN

PROTECTIVE VEHICLE

ROAD

WORK

AHEAD

W20-1

LEFT LANE

CLOSED

AHEAD

W20-5L

W4-2R

SIGN SPACING = X (1)							
RURAL ROADS	45 / 55 MPH	500' ±					
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±					
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTREICTS	25 / 30 MPH	200' ± (2)					
URBAN STREETS	25 MPH OR LESS	100' ± (2)					

(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.

	MINIMUM TAPER LENGTH = L (feet)										
LANE	Posted Speed (mph)										
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70	
10	105	150	205	270	450	500	-	-	-	-	
11	115	165	225	295	495	550	-	-	-	-	
12	125	180	245	320	540	600	-	-	-	-	

ROAD

CHANNELIZATION DEVICE SPACING (feet)							
MPH	TAPER	TANGENT					
50	40	80					
35/45	30	60					
25/30	20	40					

PRFUP20210127

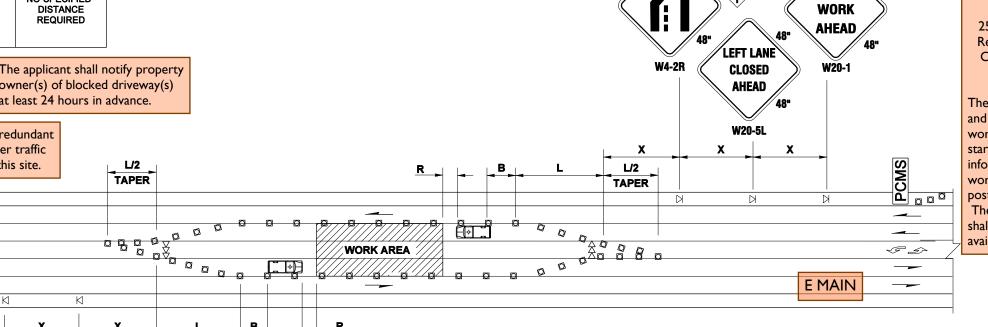
NIGHT WORK REQUIRED. CLOSURE ALLOWED: Sunday - Thursday

9PM - 5AM

Call communications center at 253-287-4456 on night of closure. Request an inspection through the CityView portal a minimum of 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 sighs posted visibly along the right-of-way. The permit and traffic control plans shall be posted at the job site and available to inspectors at all times.

> Lane closure duration can be modified at the full discretion of the City Inspector.



The applicant shall notify public transportation agencies whose routes or stops are affected by the traffic control plan 24 hours in advance of job start.

STEEL PLATE AHEAD and MOTORCYCLISTS USE EXTREME CAUTION advanced warning signs are required for steel plates installed in the public right-of-way.

- -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.

LEFT LANE AND CENTER TURN LANE **CLOSURE - 5 LANE ROADWAY**

1. PROTECTIVE VEHICLE RECOMMENDED - MAY BE A WORK VEHICLE.

PCMS

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

1

CENTER

LANE

CLOSED

1.5 SEC

2

NO

LEFT

TURNING

1.5 SEC

- 2. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 3. ALL SIGNS ARE BLACK ON ORANGE.

NOT TO SCALE

FILE NAME	S:\Design R P& S\4-Standards\	2-Plan Sheet Library\10-Work zone plans (WZ)\TC-1-21\TC	C-11\TC-11.dgr	1							
TIME	8:38:53 AM				REGION STA	™ FED.AID PROJ.NO.					
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PLOTTED BY	Cyfordi] 10 VVA	эп					
DESIGNED BY					JOB NUMBER				Washington State		SHEET
ENTERED BY											GILLI
CHECKED BY					CONTRACT N	D. LOCATION NO.			Department of Transportation		_ OF
PROJ. ENGR.							DATE	DATE	-	TRAFFIC CONTROL PLAN	SHEETS
REGIONAL ADM.		REVISION	DATE	BY	1		P.E. STAMP BOX	P.E. STAMP BOX			encela
•				_	-						





CITY OF PUYALLUP

PRFUP20210127

Engineering Services

333 S Meridian, Puyallup, WA 98371 Tel: (253) 841-5568 Fax: (253) 840-6678

www.cityofpuyallup.org

City of Puyallup Minimum Requirements for Night Traffic Control TE-007

Location:		
Contractor:		
Date:		
Time:		
 Road must 	be opened by 5:00 AM	
 Contractor 	shall call Comm Center to advise at (253) 843	1-5431 prior to work start
with flashi	shall have adequate lighting. Tapers shall be d ng lights at the start and end of each line of ch thts to outline open roadway	
	in work zone are required to wear clothing wit criteria established by American National Stan ection 6	
Flashing A	rrows are required on roads such as River Roa	nd, Valley Ave and E. Main.
• Approved	Traffic Control Plans shall be followed as a m	inimum at all times
	ditions require additional lights, cones, or sign e Traffic Control Plan as needed	nage, the Contractor shall
Puyallup l email at <u>T</u>	ed Traffic Control Plans necessitate the use Police shall be utilized. Contact Tame Ferricame@puyallupwa.gov to coordinate. Twentequired for coordination/scheduling purpos	n at 253-841-5436 or via ty-four hours advanced
Contractor	Signature:	Date: