

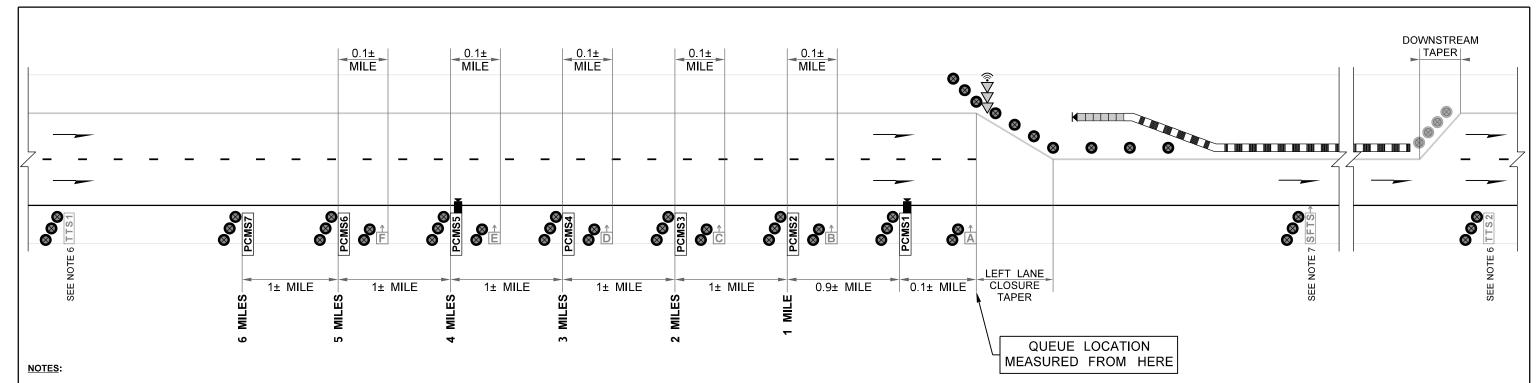
- 1. THIS PLAN IS USED IN CONJUNCTION WITH A LONG-TERM 2-LANE FREEWAY SINGLE LEFT LANE CLOSURE STAGED TRAFFIC PLAN.
- 2. SEE SMART WORK ZONE SYSTEM (SWZS) SPECIAL PROVISION OR RFP FOR DETAILS.
- 3. MODIFICATIONS TO PCMS MESSAGES SHALL BE ACCEPTED BY THE ENGINEER. "##" ARE CHANGEABLE VALUES BASED ON REAL-TIME TRAVEL DELAY TIMES IN MINUTES.
- 4. ADJUST SWZS COMPONENTS LOCATION TO AVOID CONFLICTS WITH TRAFFIC CONTROL DEVICES, NARROW SHOULDERS, AND RAMPS. SWZS COMPONENTS MAY BE POLE-MOUNTED. WHEN LOCATED BEHIND BARRIER/GUARDRAIL OR WITHIN LANE CLOSURE, TRANSVERSE TRAFFIC DRUMS OPTIONAL.
- 5. LOCATE PCMSs PER STANDARD SPECIFICATION 1-10.3(3)C. PCMS MAY BE PLACED ON OPPOSITE SHOULDER BUT AVOID RAMP GORES MINIATURE PCMSs (~6'WIDE, 12+ INCH CHARACTERS) ALLOWED FOR ALL PCMSs.
- 6. ESTIMATED TRAVEL DELAY TIMES SHALL BE ACCURATE WITHIN 5 MINUTES.
- 7. WHEN FEASIBLE, LOCATE SIDE FIRE TRAFFIC SENSOR PRIOR TO ANY OPEN RAMPS.
- 8. IF SYSTEM FAILS SEE "SMART WORK ZONE SYSTEM FAILURE PROTOCOL" PROVISION.
- 9. IF TRAFFIC QUEUES REACH 5.5 MILES, PLACE ADDITIONAL PCMS AT 8± MILES. RELOCATE FARTHER BACK AS NEEDED TO REMAIN IN ADVANCE OF QUEUE, TRUCK-MOUNTED PCMS WITH 10+ INCH CHARACTERS ACCEPTABLE. TRANSVERSE TRAFFIC SAFETY DRUMS OPTIONAL. REMOVE PCMS WHEN DISSIPATING QUEUES ARE LESS THAN 5 MILES. ADDED PCMS MESSAGE: TRAFFIC BACKUPS PRESENT / SLOW TRAFFIC AHEAD

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LEGEND:	
Ø	TRAFFIC SAFETY DRUM
#	TRAFFIC SENSOR
TTS#	PORTABLE TRAVEL TIME SENSOR (SEE NOTE 6)
SFTS→	SIDE FIRE TRAFFIC SENSOR (SEE NOTE 7)
((•)	SMART SEQUENTIAL ARROW SIGN (CONNECTED)
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 5)
H	PAN-TILT-ZOOM (PTZ) CAMERA
	TEMPORARY BARRIER
K	TEMPORARY IMPACT ATTENUATOR (TL-3)

			S	SYMB FF SL		RIGGI SPEE (mph 35+) F	OND	FIC ITION Flow ved														
I	QUE			TRA	FF	IC	SE	NS	ORS	PCN	IS 7	PCM	IS 6	PCM	S 5	PCM	S 4	PCM	S 3	PCN	IS 2	PCN	1 S 1
ı	LOCA.	HO	N	F	Е	D	С	В	Α	1	2	1	2	1	2	1	2	1	2	1	2	1	2
l	(mile	es)					CON			2.0 SEC	2.0 SEC	20 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
ĺ	Nor	ne							FF		(Blank)	LEFT LANE CLOSED	1 MILE AHEAD		(Blank)								
	0.01 TO	O 0	.9	FF	FF	FF	FF	FF	SL		(Blank)		(Blank)		(Blank)	SINGLE LANE CLOSURE	3 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 1 MILE	•	(Blank)
	0.91 TO) 1	.9	FF	FF	FF	FF	SL	SL		(Blank)		(Blank)	SINGLE LANE CLOSURE	4 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 2 MILES	ZIPPER MERGE 1 MILE	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
	1.91 TO) 2	2.9	FF	FF	FF	SL	SL	SL		(Blank)	SINGLE LANE CLOSURE	5 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 3 MILES	2 MILES TO MERGE POINT	USE BOTH LANES	ZIPPER MERGE 1 MILE	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
ſ	2.91 TO	Э 3	.9	FF	FF	SL	SL	SL	SL	SINGLE LANE CLOSURE	6 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 4 MILES	3 MILES TO MERGE POINT	USE BOTH LANES	2 MILES TO MERGE POINT	USE BOTH LANES	ZIPPER MERGE 1 MILE	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
	3.91 TO	O 4	.9	FF	SL	SL	SL	SL	SL	LANE CLOSURE 6 MILES	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 5 MILES	4 MILES TO MERGE POINT	USE BOTH LANES	3 MILES TO MERGE POINT	USE BOTH LANES	2 MILES TO MERGE POINT	USE BOTH LANES	ZIPPER MERGE 1 MILE	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
	4.9′	1+	,	SL	SL	SL	SL	SL	SL	SLOW OR STOPPED TRAFFIC	NEXT 6 MILES	LANE CLOSURE 5 MILES	## MINUTE DELAY	4 MILES TO MERGE POINT	USE BOTH LANES	3 MILES TO MERGE POINT	USE BOTH LANES	2 MILES TO MERGE POINT	USE BOTH LANES	ZIPPER MERGE 1 MILE	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS

6-MILE SMART WORK ZONE SYSTEM FREEWAY (2 LANES): SINGLE LEFT LANE CLOSURE

·							NOT TO SCALE			
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TIME	11:58:17 AM			REGION STATE	FED.AID PROJ.NO.					PLAN REF NO
DATE	1/5/2024			10 WASH	1					TC161
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DESIGNED BY				JOB NUMBER	1			Washington State		SHEET
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PROJ. ENGR.						DATE	DATE	-	TYPICAL TRAFFIC CONTROL PLANS	1 SHEETS
REGIONAL ADM.		REVISION	DATE	BY		P.E. STAMP BOX	P.E. STAMP BOX			SILLIS



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		SYME FF SI	F	RIGGI SPEE (mph 35+) C	TRAF ONDI ree I Slow	TION Flow											_			
QUE		TR	AFF	IC	SEI	NSC	RS	PCM	IS 7	PCM	S 6	PCM	S 5	PCM	IS 4	PCM	S 3	PCN	IS 2	PCN	IS 1
LOCAT		F	E	D	С	В	Α	1	2	1	2	1	2	1	2	1	2	1	2	1	2
(mile	s)	TRAFFIC		IC (CONDITION		N	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
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Non	е	FF	FF	FF	FF	FF	FF		(Blank)		(Blank)		(Blank)		(Blank)		(Blank)	LANE CLOSED	MILE AHEAD		(Blank)
														SINGLE	3	TRAFFIC	##	SLOW OR	NEXT		
0.01 TC	0.9	FF	FF	FF	FF	FF	SL		(Blank)		(Blank)		(Blank)	LANE	MILES	BACKUPS	MINUTE	STOPPED	1 1		(Blank)
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												SINGLE	4	TRAFFIC	##	SLOW OR	NEXT	ZIPPER	USE	ZIPPER	TAKE
0.91 TC	1.9	FF	FF	FF	FF	SL	SL		(Blank)		(Blank)	LANE	MILES	BACKUPS	MINUTE	STOPPED	2	MERGE	LEFT	MERGE	TURNS
												CLOSURE	AHEAD	PRESENT	DELAY	TRAFFIC	MILES	1 MILE	LANE TOO	HERE	
										SINGLE	5	TRAFFIC	##	SLOW OR	NEXT	2 MILES	USE	ZIPPER	USE	ZIPPER	TAKE
1.91 TC	2.9	FF	FF	FF	SL	SL	SL		(Blank)	LANE	MILES	BACKUPS	MINUTE	STOPPED	3	TO MERGE	BOTH	MERGE	LEFT	MERGE	TURNS
										CLOSURE	AHEAD	PRESENT	DELAY	TRAFFIC	MILES	POINT	LANES	1 MILE	LANE TOO	HERE	
								SINGLE	6	TRAFFIC	##	SLOW OR	NEXT	3 MILES	USE	2 MILES	USE	ZIPPER	USE	ZIPPER	TAKE
2.91 TC	3.9	FF	FF	SL	SL	SL	SL	LANE	MILES	BACKUPS	MINUTE	STOPPED	4	TO MERGE	BOTH	TO MERGE	вотн	MERGE	LEFT	MERGE	TURNS
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								6 MILES	DELAY	TRAFFIC	MILES	POINT	LANES	POINT	LANES	POINT	LANES	1 MILE	LANE TOO	HERE	
		ا ـ ا	۱	۱		١		SLOW OR	NEXT	LANE	##	4 MILES	USE	3 MILES	USE	2 MILES	USE	ZIPPER	USE	ZIPPER	TAKE
4.91	+	SL	SL	SL	SL	SL	SL	STOPPED	6	CLOSURE	MINUTE	TO MERGE	BOTH	TO MERGE	BOTH	TO MERGE	BOTH	MERGE	LEFT	MERGE	TURNS
								TRAFFIC	MILES	5 MILES	DELAY	POINT	LANES	POINT	LANES	POINT	LANES	1 MILE	LANE TOO	HERE	

6-MILE SMART WORK ZONE SYSTEM FREEWAY (2 LANES): SINGLE LEFT LANE CLOSURE

							NOT TO SCALE			
FILE NAME	C:\Users\LintzF\OneDrive - Wa	ashIngton State Department of Transportation\Desktop\V	ork Zone TCPs	s\161Fwy6MlleSW2	S1Lt.dgn					Plot 1
TIME	11:58:17 AM			REGION STATE	FED.AID PROJ.NO.					PLAN REF NO
DATE	1/5/2024			10 WAS	d					TC161
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DESIGNED BY				JOB NUMBER				Washington State		SHEET
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PROJ. ENGR.						DATE	DATE	=	TYPICAL TRAFFIC CONTROL PLANS	1 SHEETS
REGIONAL ADM	l .	REVISION	DATE	BY		P.E. STAMP BOX	P.E. STAMP BOX			SHEETS

WORK ZONE MICROSTATION CELLS: Updated work zone cells incorporated (January 2024).	DESIGNER NOTES:		
WSDOT CAE automatically updates cell libraries on WSDOT and on-site consultant staff computers (no action needed); however, external users or off-site consultants must manually install them. For additional information email HQCAEHelpDesk@wsdot.wa.gov.	A. Region Transportation Operations will determine if and what queue mitigate (Traffic Manual 5-9). For additional information, see Traffic Manual 5-17 or Work Zo	ation system is needed using work zone traffic analysis one Traffic Control Fundamentals presentation.	
Division 4 in WSDOT Plans Preparation Manual, Section 400.06(29), provides updated work zone cell library policy and information for PS&Es. See https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/manuals/plans-preparation-manual	B. These typical traffic control plans may be modified for site-specific situations and/or Typical Traffic Control Plans are not "Standard Plans" .	WSDOT Region Transportation Operations standard practice	.S.
TYPICAL TCP USAGE EXPLANATION:	C. If the long-term staged traffic control plan does not use temporary barriers, this Ty	pical TCP can be modified to reflect channelization devices in	ıstead.
	C. If the long-term staged traffic control plan does not use temporary barriers, this Ty D. When used, include 3 of the following Smart Work Zone System General Speci 1-10.3(3).0PT3.FR1 Specifications 1-10.4(2).0PT5.GR1 Measurement (Traffic Control as Bid Items) 1-10.5(2).0PT3.GR1 Payment E. If traffic queues regularly exceed 6 miles, use the 9-mile Smart Work Zone System (F. Except for projects requiring them in the Provisions, Pan-Tilt-Cameras (PTZ Cameras or deleted. PTZ Cameras are used remotely by Agency to monitor incidents and queued. PTZ Cameras are used to obtain traffic volume and speed data per Gene. H. These Smart Work Zone Systems are very adaptable for a variety of situations, included work zone. Contact State Work Zone Engineers for guidance at HQWorkZone.	al Provisions listed below: TC171). a) are optional and may be mounted on different PCMSs as desues. Tal Special Provision requirements. Inding being used on multiple roadways concurrently leading in	lesired
	WARNING SYSTEM GLE LEFT LANE CLOSURE		
		INFORMATIONAL USE ONLY	Plot 2
		DO NOT INCLUDE THIS SHEET IN	TC16
		CONTRACT PS&Es or TCP SUBMITTALS	

DESIGNER GUIDANCE