

MINIMUM LANE CLOSURE 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	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)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	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

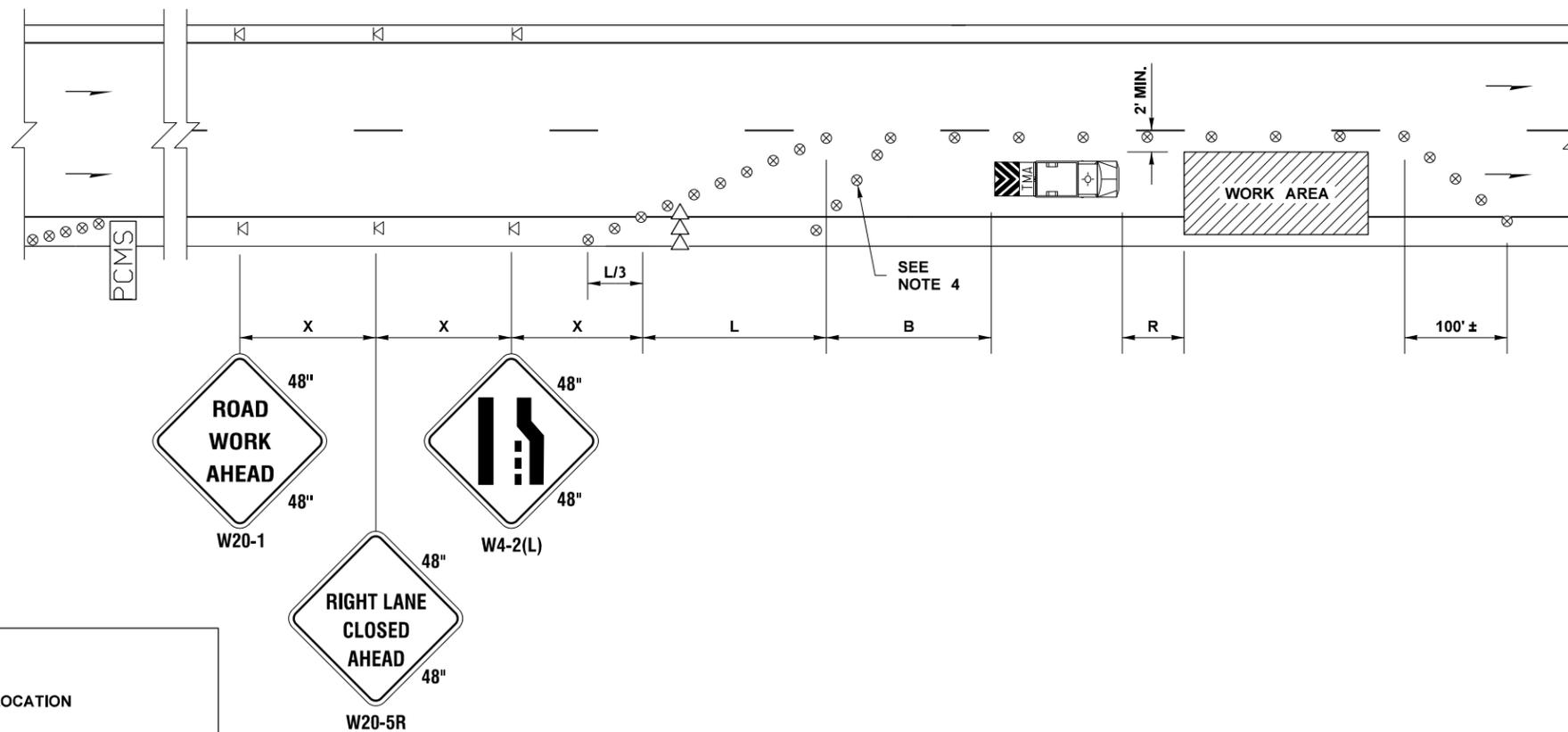
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
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)

(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.

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

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.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					



PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

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

NOTES:

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- DEVICES SHALL NOT ENCR OACH INTO THE ADJACENT LANE.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'(FT) (RECOMMENDED).
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT).
- ALL SIGNS ARE BLACK ON ORANGE.

SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

LEGEND	
⊘	TEMPORARY SIGN LOCATION
⊗	TRAFFIC SAFETY DRUM
⇨⇨	SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-3.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME	1:43:27 PM	WASH				PLAN REF NO TC3
DATE	10/14/2016	JOB NUMBER				SHEET
PLOTTED BY	liddelf	CONTRACT NO.		LOCATION NO.		OF
DESIGNED BY						SHEETS
ENTERED BY						
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

MINIMUM LANE CLOSURE 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	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)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	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

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

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
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)

(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.

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

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

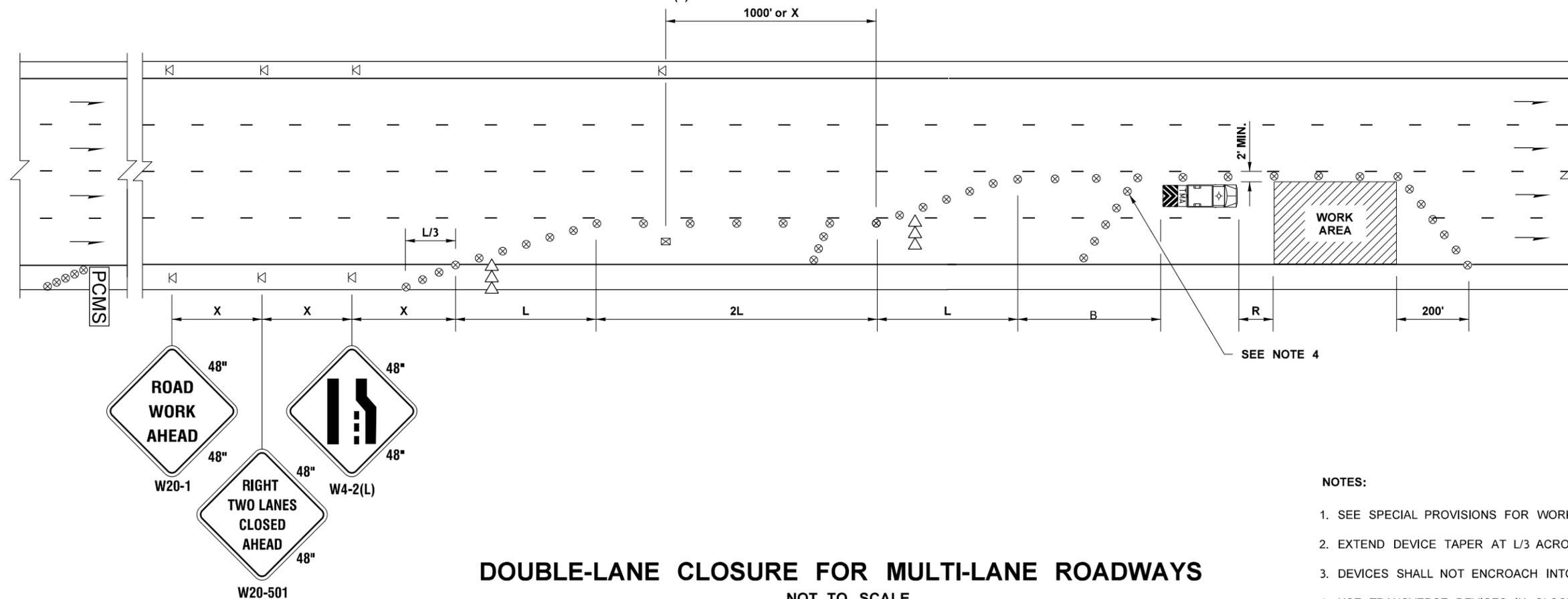
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'

PCMS	
1	2
2 LANES CLOSED AHEAD	WATCH FOR SLOW TRAFFIC
2.0 SEC	2.0 SEC

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



W4-2(L)



DOUBLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES:

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- DEVICES SHALL NOT ENCR OACH INTO THE ADJACENT LANES.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'(FT) (RECOMMENDED).
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT).
- ALL SIGNS ARE BLACK ON ORANGE.

LEGEND			
⊗	TRAFFIC SAFETY DRUM		TRANSPORTABLE ATTENUATOR
⊠	TEMPORARY SIGN LOCATION		PORTABLE CHANGEABLE MESSAGE SIGN
▶▶▶	SEQUENTIAL ARROW SIGN	⊠	TEMPORARY SIGN LOCATION (5' (FT) MOUNTING HEIGHT)

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern(TC1-TC-17) Buffer Data table replacement\TC-4.dgn		
TIME	12:51:59 PM	REGION NO.	STATE
DATE	10/18/2016		WASH
PLOTTED BY	liddelf	JOB NUMBER	
DESIGNED BY		CONTRACT NO.	LOCATION NO.
ENTERED BY			
CHECKED BY			
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

FED.AID PROJ.NO.	
DATE	
P.E. STAMP BOX	



Plot 1
PLAN REF NO
TC4
SHEET
OF
SHEETS

TRAFFIC CONTROL PLAN

SIGN SPACING = X (1)		
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)

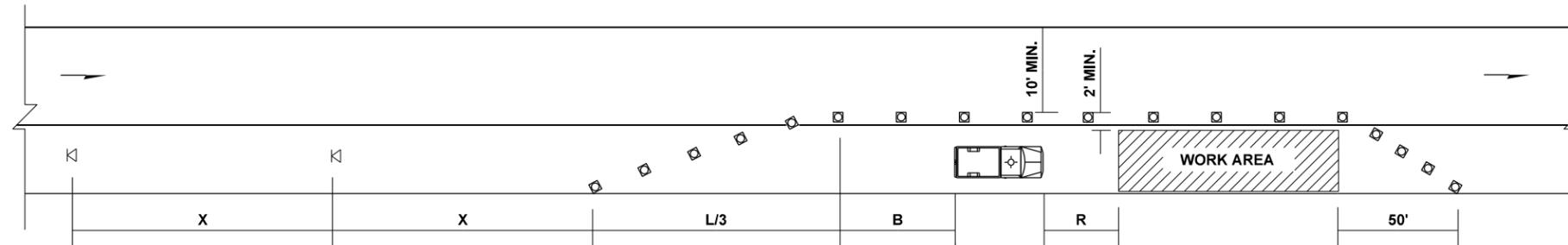
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-

USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

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

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.					HOST VEHICLE WEIGHT > 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										



LEGEND	
⊠	TEMPORARY SIGN LOCATION
⊠	CHANNELIZING DEVICES
⊠	PROTECTIVE VEHICLE

SHOULDER CLOSURE - LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

NOTES:

1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-5.dgn									Plot 1
TIME	1:26:58 PM									PLAN REF NO
DATE	10/14/2016									TC5
PLOTTED BY	liddelf									SHEET
DESIGNED BY										OF
ENTERED BY										SHEETS
CHECKED BY										
PROJ. ENGR.										
REGIONAL ADM.										
	REVISION	DATE	BY			DATE	DATE	TRAFFIC CONTROL PLAN		



SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

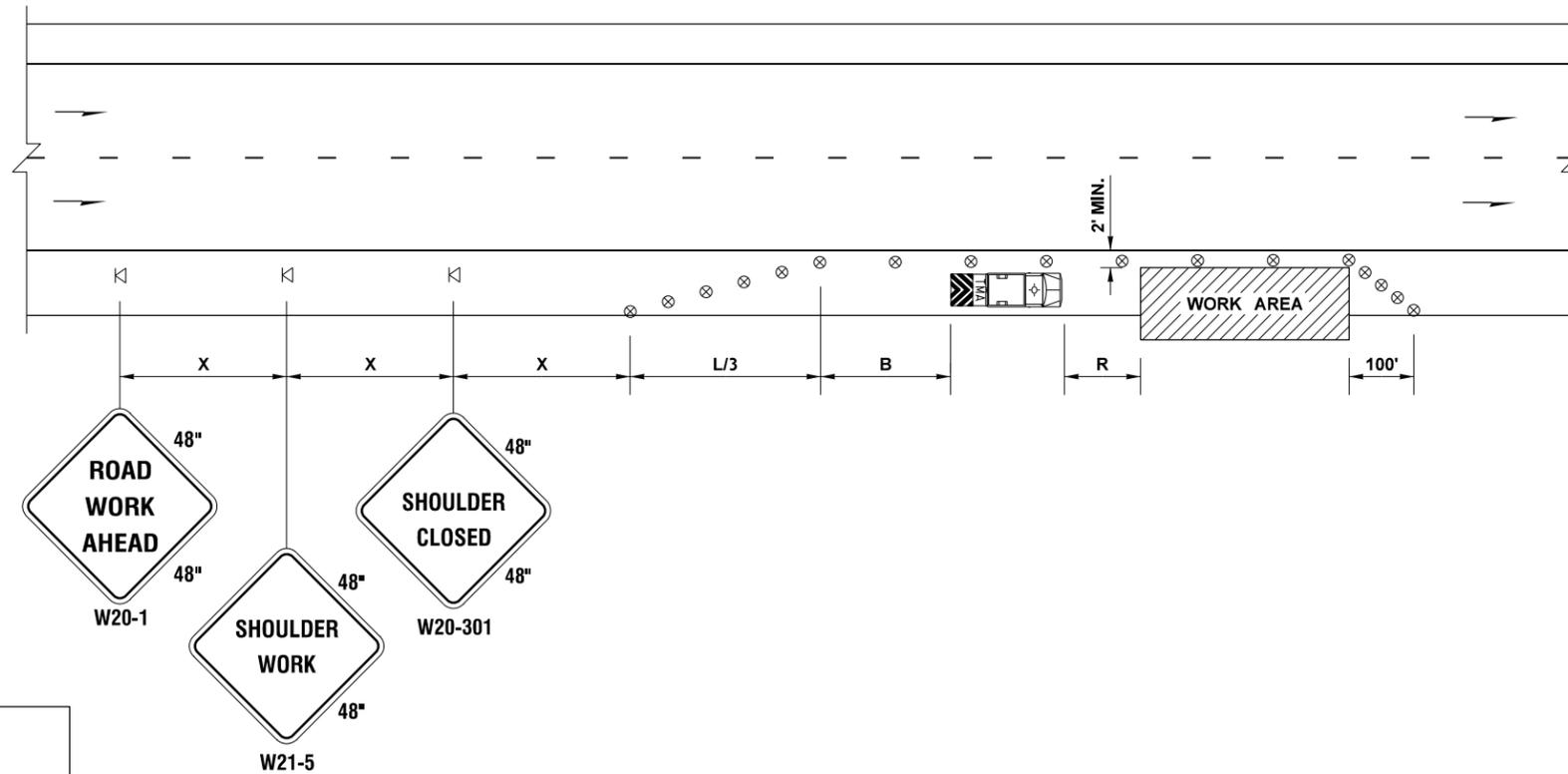
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

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

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

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.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH				< 45 MPH	45-55 MPH	> 55 MPH		
100'	123'	172'				74'	100'	150'		



LEGEND	
⊓	TEMPORARY SIGN LOCATION
⊗	TRAFFIC SAFETY DRUM
	TRANSPORTABLE ATTENUATOR

SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

NOTES:

- NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
- ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-6.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME	2:51:47 PM				WASH		PLAN REF NO		TC6
DATE	10/14/2016				JOB NUMBER			SHEET	
PLOTTED BY	liddelf				CONTRACT NO.		LOCATION NO.	OF	
DESIGNED BY								SHEETS	
ENTERED BY									
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM.	REVISION	DATE	BY					TRAFFIC CONTROL PLAN	

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

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

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

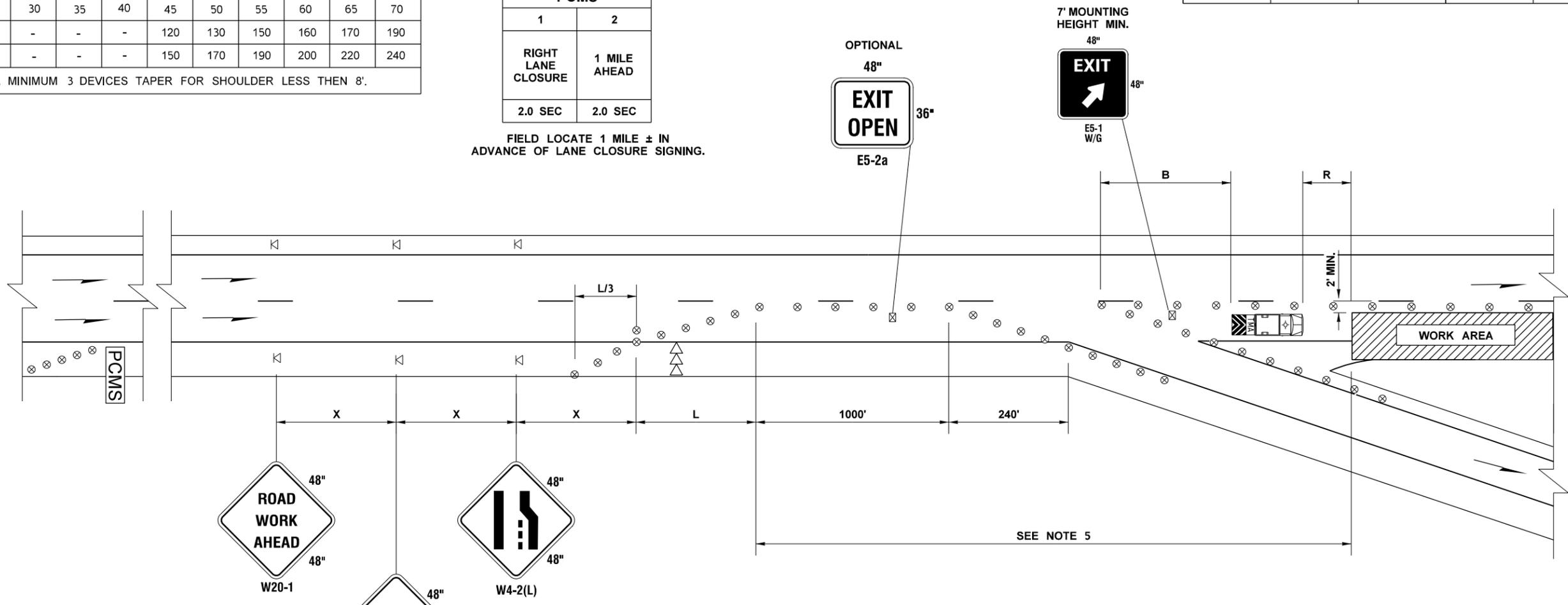
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

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

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.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					

PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

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



LEGEND	
⊏	TEMPORARY SIGN LOCATION
⊗	TRAFFIC SAFETY DRUM
↔↔↔	SEQUENTIAL ARROW SIGN
▬▬▬	TRANSPORTABLE ATTENUATOR
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
⊗	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

TEMPORARY OFF-RAMP FOR MULTI-LANE ROADWAYS

NOT TO SCALE

- NOTES:
- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
 - USE A DOWNSTREAM TAPER TO END THE LANE CLOSURE WITH 20' (FT) DEVICE SPACING.
 - DEVICES SHALL NOT ENCROACH INTO ADJACENT LANES.
 - USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' (FT) ± (RECOMMENDED).
 - SEE SHEET TCXX FOR A SHORT TERM OFF-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-7.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME	2:52:58 PM	WASH				PLAN REF NO
DATE	10/14/2016	JOB NUMBER				SHEET
PLOTTED BY	liddelf	CONTRACT NO.		LOCATION NO.		OF
DESIGNED BY						SHEETS
ENTERED BY						
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240

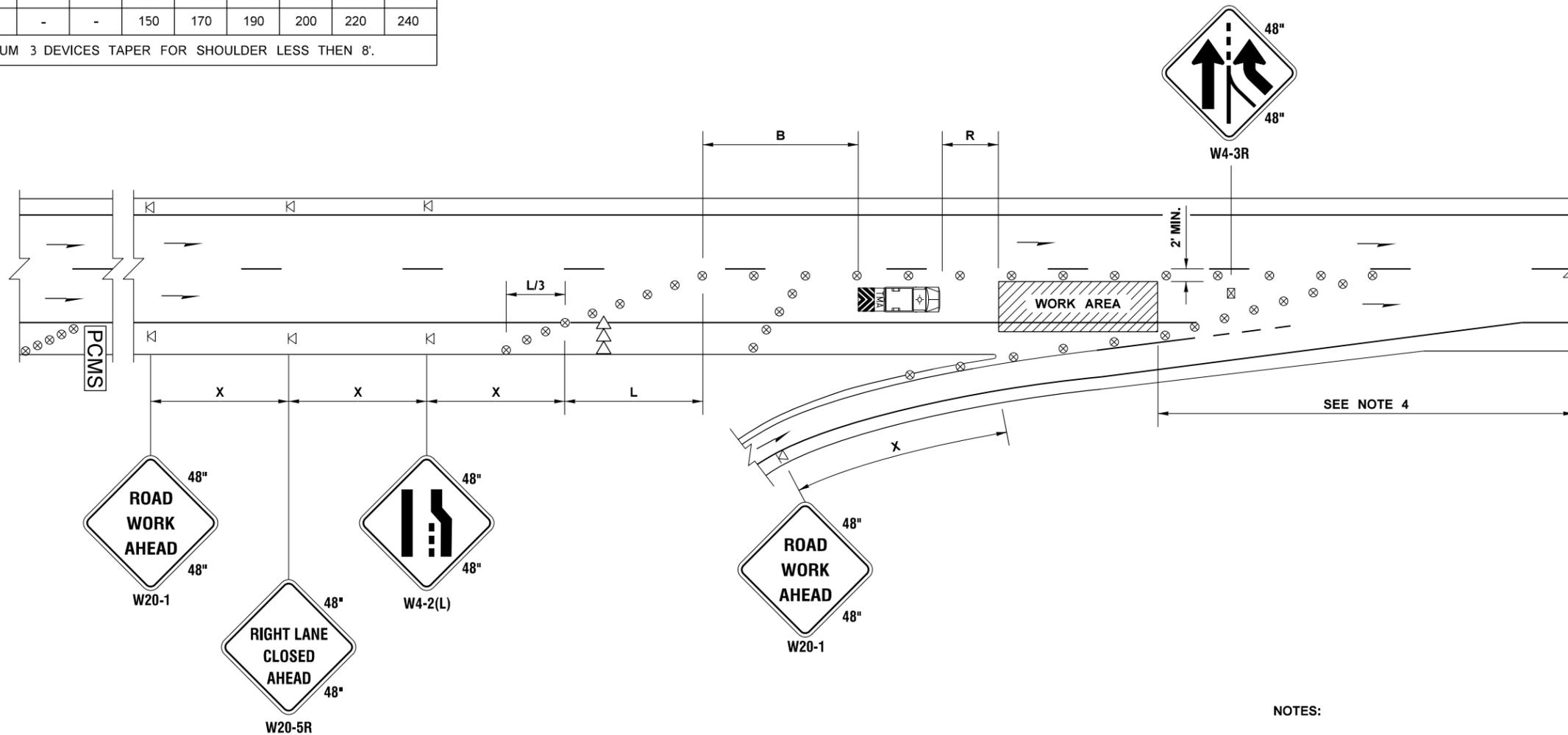
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

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

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.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					



PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

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

TEMPORARY ON-RAMP FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- DEVICES SHALL NOT ENCROACH INTO ADJACENT LANES.
- USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000' ± (RECOMMENDED).
- SEE SHEET TCXX FOR A SHORT TERM ON-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
- ALL SIGNS ARE BLACK ON ORANGE.

LEGEND			
⊗	TRAFFIC SAFETY DRUM		TRANSPORTABLE ATTENUATOR
⊠	TEMPORARY SIGN LOCATION		PORTABLE CHANGEABLE MESSAGE SIGN
⊠	SEQUENTIAL ARROW SIGN	⊠	TEMPORARY SIGN LOCATION (5' (FT) MOUNTING HEIGHT)

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern(TC1-TC-17) Buffer Data table replacement\TC-8.dgn		
TIME	12:07:14 PM	REGION NO.	STATE
DATE	10/18/2016		WASH
PLOTTED BY	liddelf	JOB NUMBER	
DESIGNED BY		CONTRACT NO.	LOCATION NO.
ENTERED BY			
CHECKED BY			
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

FED.AID PROJ.NO.	
DATE	
P.E. STAMP BOX	

Washington State
Department of Transportation

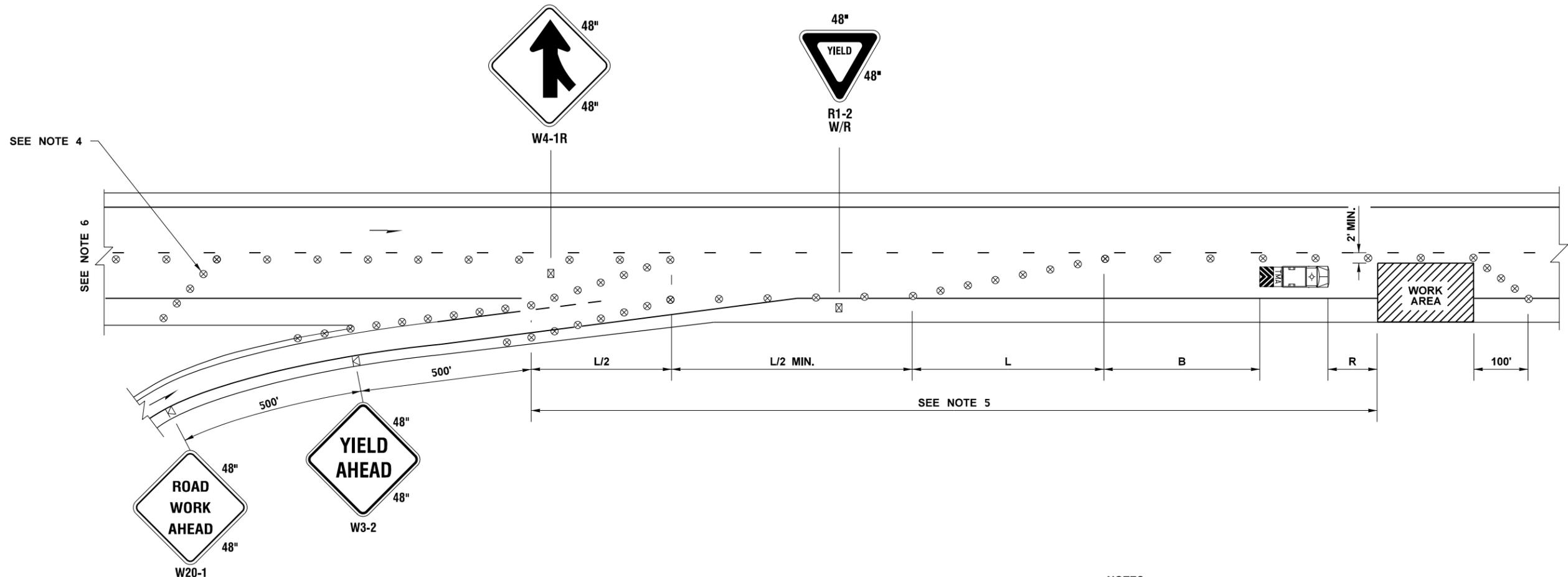
Plot 1
PLAN REF NO
TC8
SHEET
OF
SHEETS

TRAFFIC CONTROL PLAN

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	450	500	550	-	-	-
11	-	-	-	-	495	550	605	660	-	-
12	-	-	-	-	540	600	660	720	780	840

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

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.						HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'						



LEGEND	
	TEMPORARY SIGN LOCATION
	TRAFFIC SAFETY DRUM
	SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR
	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

TEMPORARY ON-RAMP FOR MULTI-LANE ROADWAYS

NOT TO SCALE

NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. USE A DOWNSTREAM TAPER TO END THE LANE CLOSURE WITH A 20' (FT) DEVICE SPACING.
3. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANES.
4. USE TRANSVERSE DEVICES IN CLOSED LANES EVERY 1000'± (RECOMMENDED).
5. SEE SHEET TCXX FOR A SHORT TERM ON-RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS.
6. SEE SHEET TC3 OR TC7 FOR RIGHT LANE CLOSURE.
7. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESINGATED.

FILE NAME	S:\Design R P& S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-9.dgn										Plot 1
TIME	2:59:35 PM										PLAN REF NO
DATE	10/14/2016										TC9
PLOTTED BY	liddelf										SHEET
DESIGNED BY											OF
ENTERED BY											SHEETS
CHECKED BY											
PROJ. ENGR.											
REGIONAL ADM.	REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	LOCATION NO.	DATE	DATE	WASH	
								P.E. STAMP BOX	P.E. STAMP BOX		



TRAFFIC CONTROL PLAN

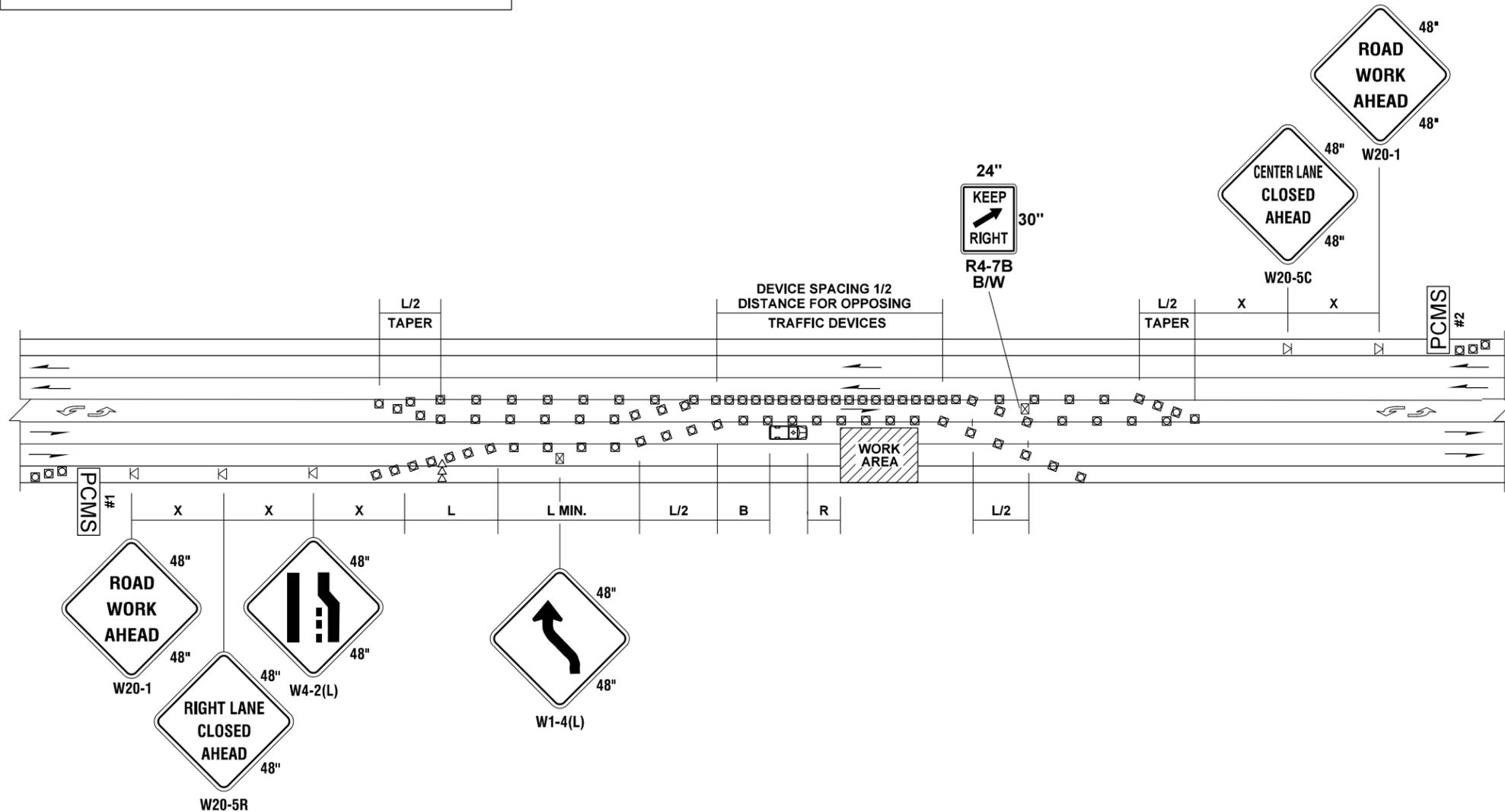
SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(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.

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	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

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.					HOST VEHICLE WEIGHT > 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										



PCMS #1	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND	
	TEMPORARY SIGN LOCATION
	CHANNELIZING DEVICES
	SEQUENTIAL ARROW SIGN
	PROTECTIVE VEHICLE
	PORTABLE CHANGEABLE MESSAGE SIGN
	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY

NOT TO SCALE

NOTES:

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

FILE NAME	S:\Design R P & S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-10.dgn				
TIME	12:53:28 PM				
DATE	10/14/2016				
PLOTTED BY	liddelf				
DESIGNED BY					
ENTERED BY					
CHECKED BY					
PROJ. ENGR.					
REGIONAL ADM.					
REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.
				WASH	
			JOB NUMBER		
			CONTRACT NO.	LOCATION NO.	

<p>Washington State Department of Transportation</p>		Plot 1 PLAN REF NO TC10
DATE P.E. STAMP BOX		SHEET OF SHEETS
TRAFFIC CONTROL PLAN		

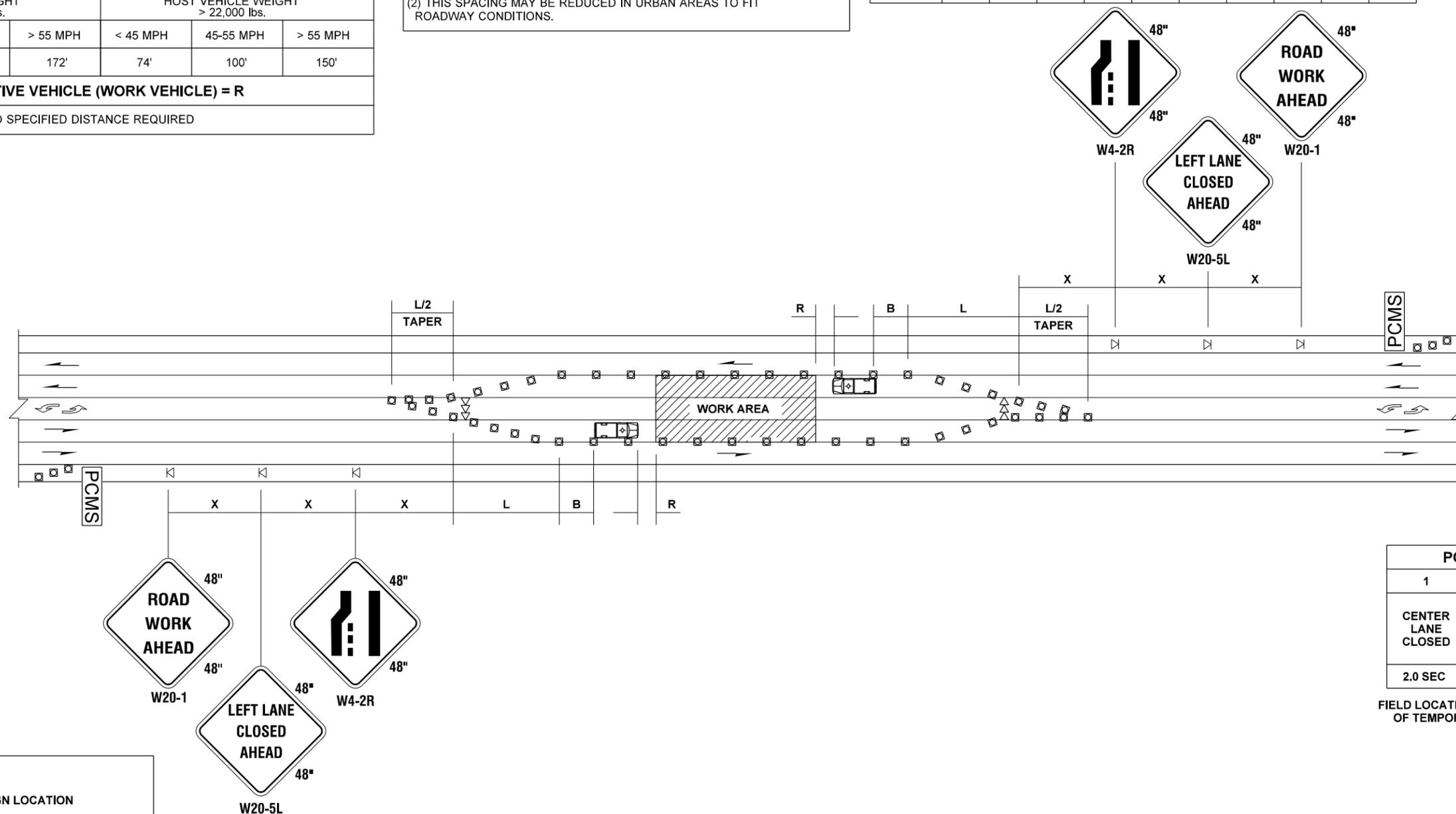
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 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										

SIGN SPACING = X (1)		
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)

(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.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
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



LEGEND	
	TEMPORARY SIGN LOCATION
	CHANNELIZING DEVICES
	SEQUENTIAL ARROW SIGN
	PROTECTIVE VEHICLE
	PORTABLE CHANGEABLE MESSAGE SIGN

LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY

NOT TO SCALE

NOTES

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

FILE NAME	S:\Design R P & S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-11.dgn				
TIME	12:59:00 PM				
DATE	10/14/2016				
PLOTTED BY	liddelf				
DESIGNED BY					
ENTERED BY					
CHECKED BY					
PROJ. ENGR.					
REGIONAL ADM.					
REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.
				WASH	
			JOB NUMBER		
			CONTRACT NO.		LOCATION NO.

DATE		DATE		<p>Washington State Department of Transportation</p>	Plot 1
P.E. STAMP BOX		P.E. STAMP BOX			PLAN REF NO TC11
					SHEET OF SHEETS
TRAFFIC CONTROL PLAN					

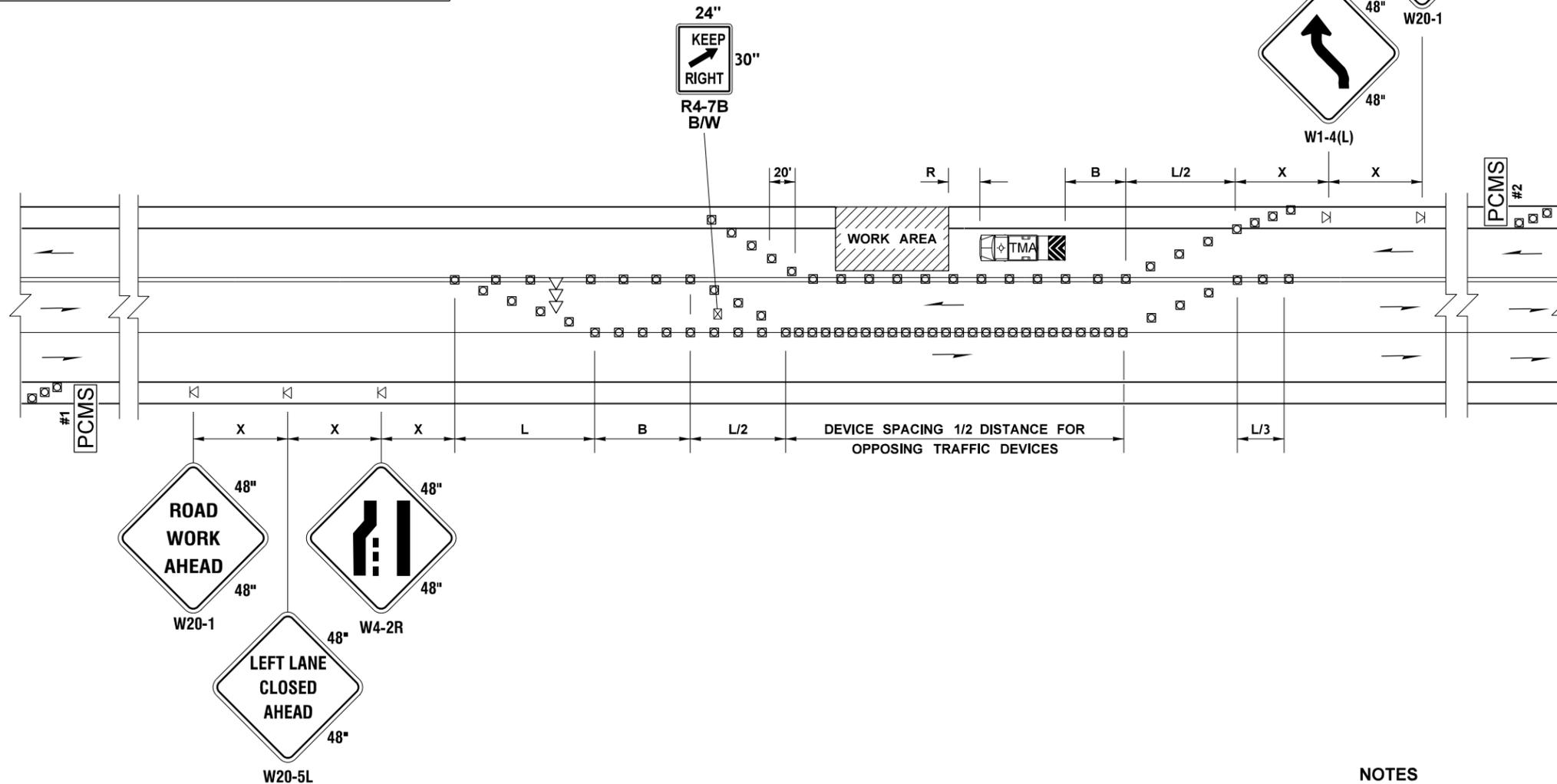
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 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										

SIGN SPACING = X (1)		
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)

(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.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
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	-

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



PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
LANE SHIFTS LEFT	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

NOTES

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

LANE SHIFT - THREE LANE ROADWAY
NOT TO SCALE

LEGEND	
⊗	TRAFFIC SAFETY DRUM
⊠	TEMPORARY SIGN LOCATION
⊞	SEQUENTIAL ARROW SIGN
	TRANSPORTABLE ATTENUATOR
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
⊠	TEMPORARY SIGN LOCATION (5' (FT) MOUNTING HEIGHT)

FILE NAME	S:\Design R P& S4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern(TC1-TC-17) Buffer Data table replacement\TC-12.dgn		
TIME	11:56:36 AM		
DATE	10/18/2016		
PLOTTED BY	liddelf		
DESIGNED BY			
ENTERED BY			
CHECKED BY			
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

	<p>Washington State Department of Transportation</p>		<p>Plot 1 PLAN REF NO TC12 SHEET OF SHEETS</p>
P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE
TRAFFIC CONTROL PLAN			

SIGN SPACING = X (1)

FREeways & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
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 SHOULDER TAPER LENGTH = L/3 (feet)

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	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

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

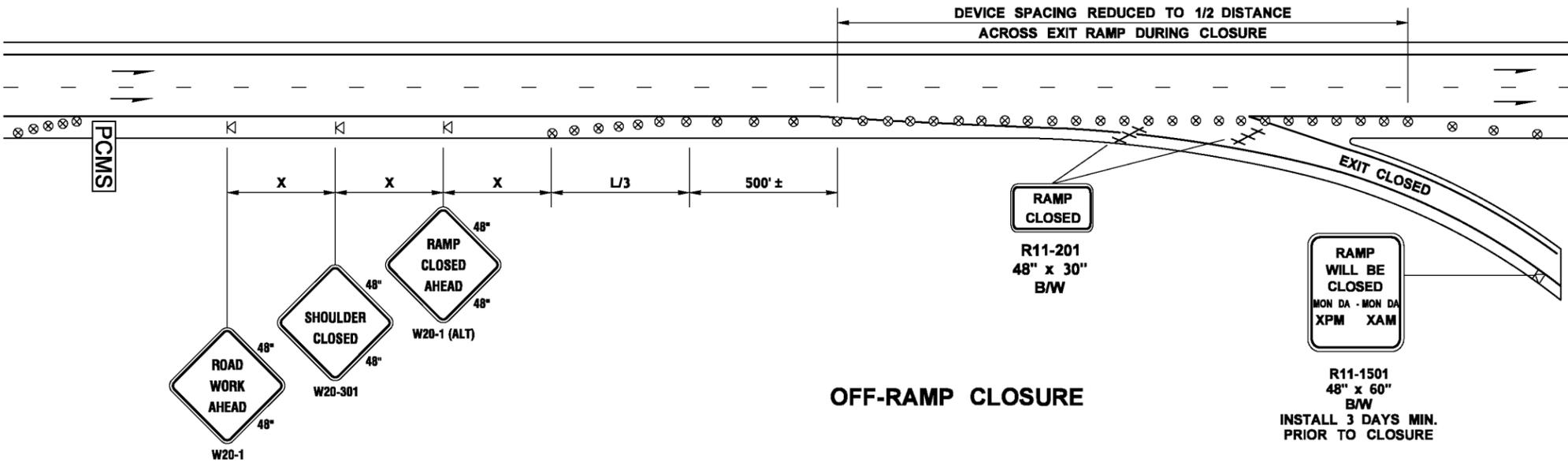
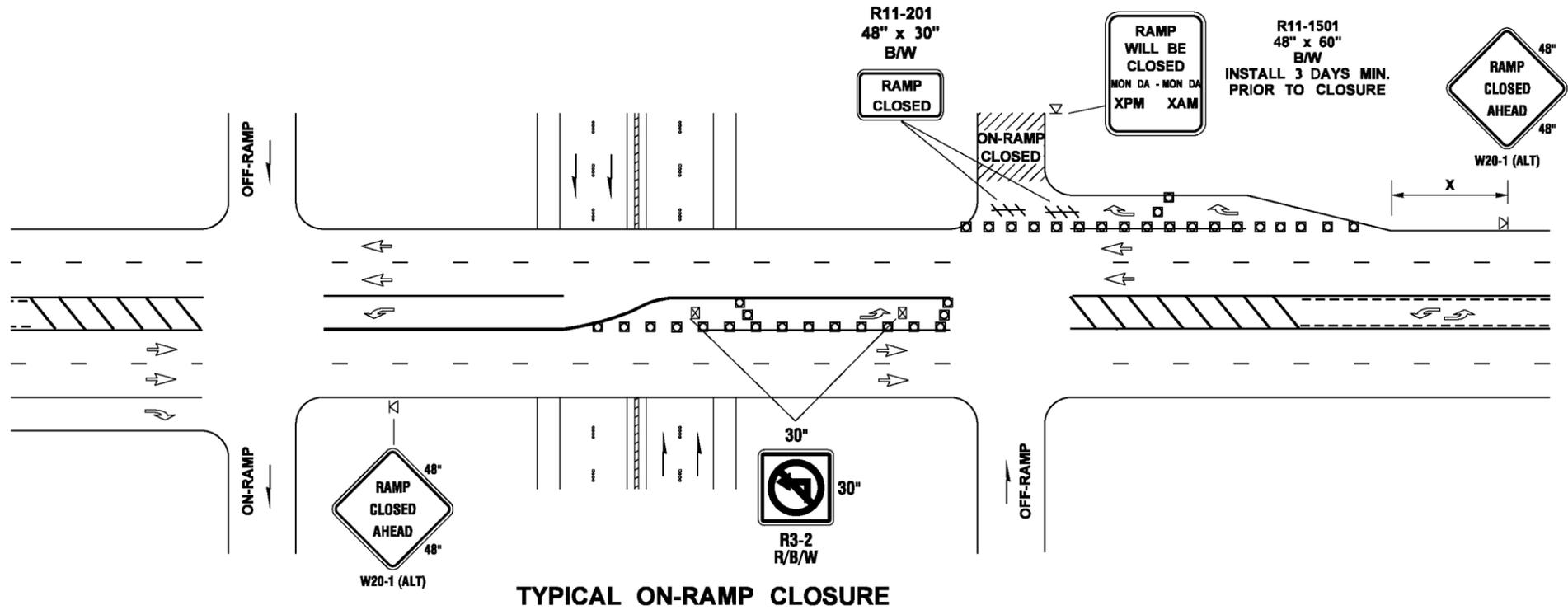
CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

PCMS

1	2
EXIT XXX CLOSED	USE EXIT XXX
2.0 SEC	2.0 SEC

FIELD LOCATE



SHORT TERM RAMP CLOSURES

NOT TO SCALE

- NOTES**
- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
 - TYPICAL APPLICATION SHOWN. ADJUST FOR SITE CONDITIONS.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

- LEGEND**
- TYPE 3 BARRICADE
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - TRAFFIC SAFETY DRUM
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 - TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

FILE NAME	S:\Design R P& S4-Standards\2-Plan Sheet Library\01-Published PSL\TC) Work Zone Traffic Control\TC-13) Short Term Ramp Closure\TC-13.dgn										Plot 1		
TIME	3:39:47 PM										PLAN REF NO		
DATE	1/15/2015										TC13		
PLOTTED BY	berensb										SHEET		
DESIGNED BY											OF		
ENTERED BY											SHEETS		
CHECKED BY													
PROJ. ENGR.													
REGIONAL ADM.	REVISION	DATE	BY	REGION NO.	STATE	WASH	JOB NUMBER	CONTRACT NO.	LOCATION NO.	FED.AID PROJ.NO.	DATE	DATE	DATE



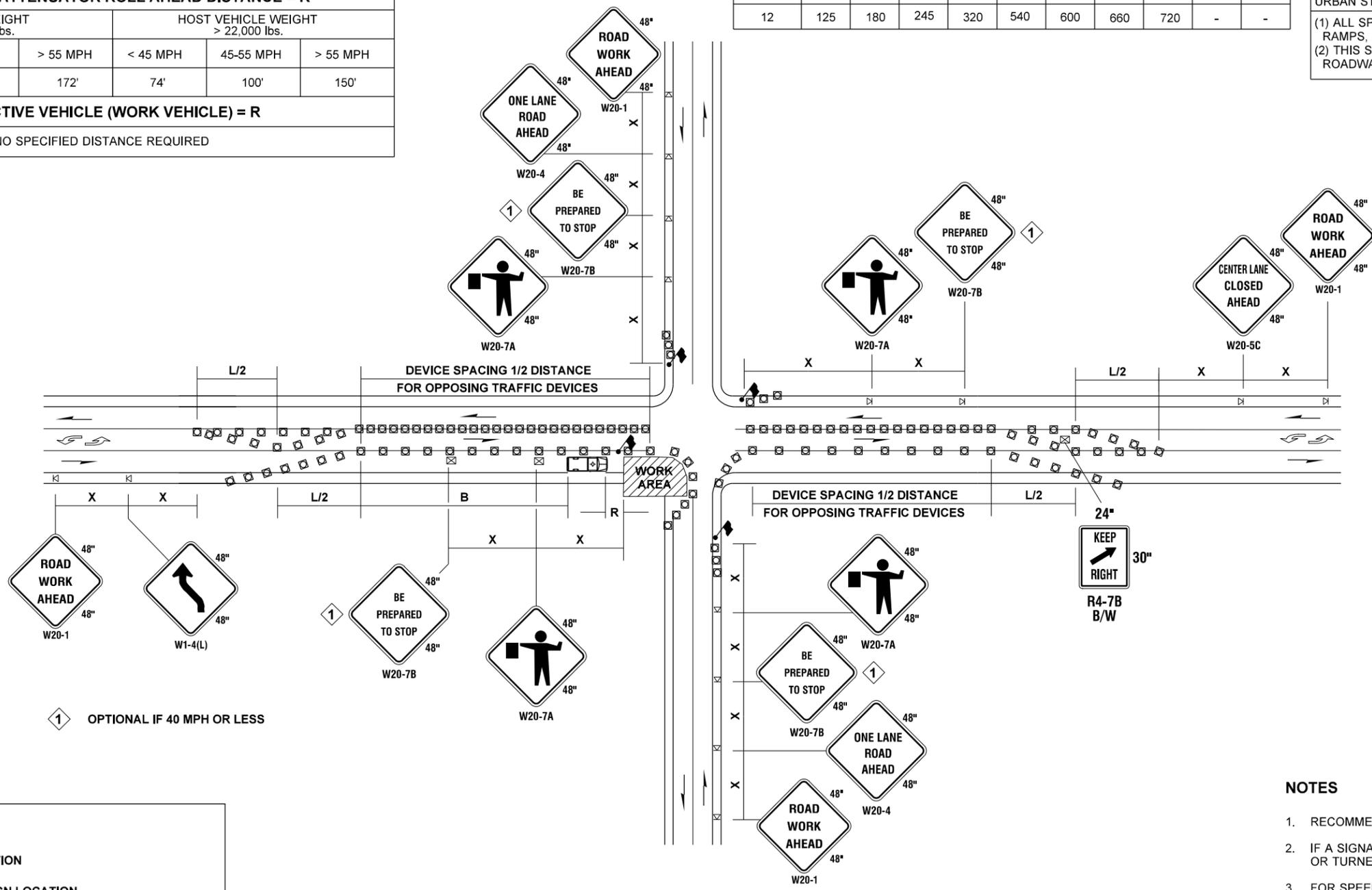
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 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										

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
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	-	-

SIGN SPACING = X (1)		
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)

(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.

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



1 OPTIONAL IF 40 MPH OR LESS

LEGEND	
	FLAGGING STATION
	TEMPORARY SIGN LOCATION
	CHANNELIZING DEVICES
	PROTECTIVE VEHICLE - RECOMMENDED
	TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

INTERSECTION LANE CLOSURE ~ THREE LANE ROADWAY

NOT TO SCALE

NOTES

- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
- FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

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DATE	10/14/2016										TC14			
PLOTTED BY	liddelf										SHEET			
DESIGNED BY														
ENTERED BY											OF			
CHECKED BY														
PROJ. ENGR.											TRAFFIC CONTROL PLAN			
REGIONAL ADM.														
	REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.		CONTRACT NO.	LOCATION NO.	DATE	P.E. STAMP BOX	DATE	P.E. STAMP BOX	SHEETS
					WASH									



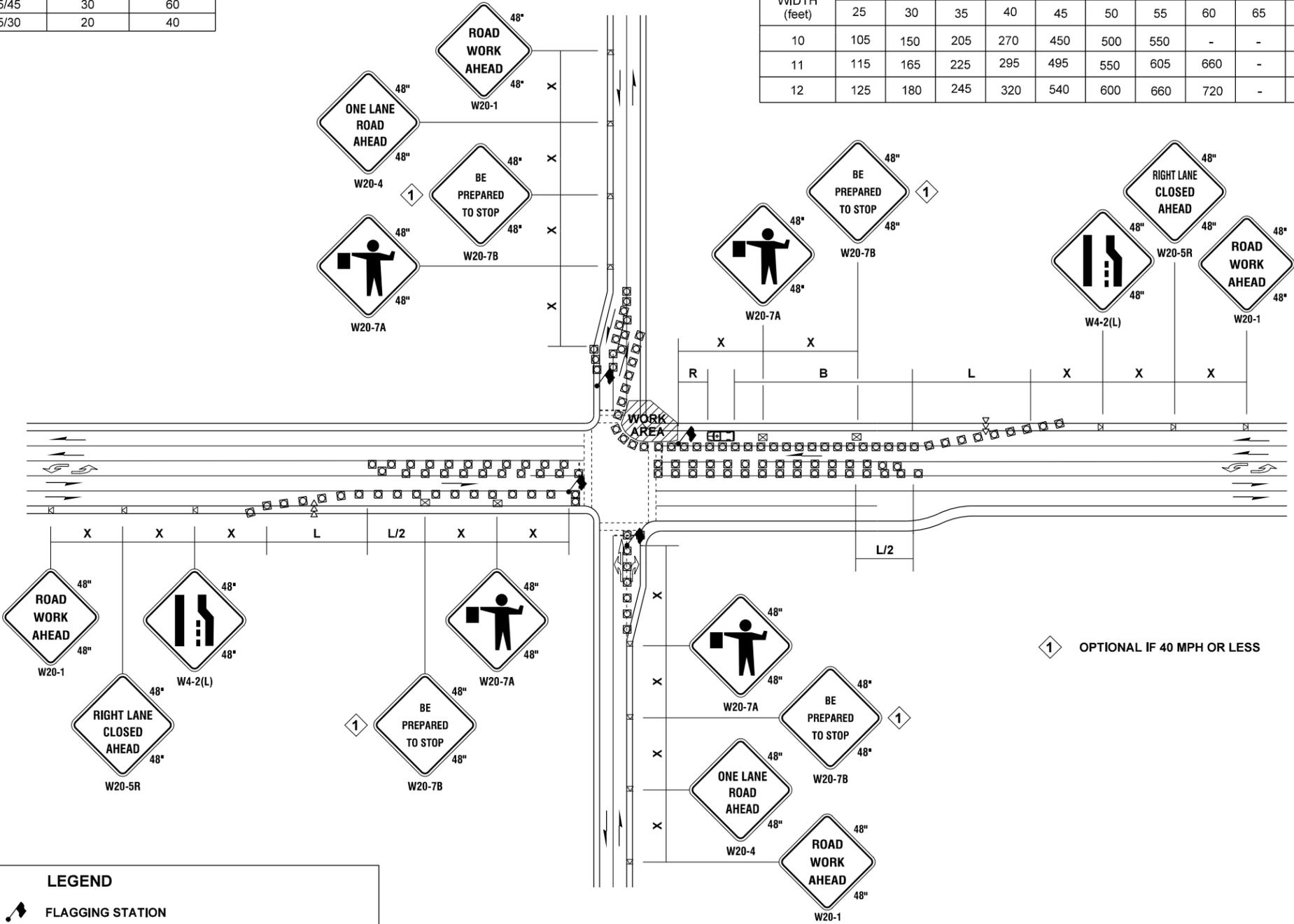
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	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	-	-

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.					HOST VEHICLE WEIGHT > 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										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' ± (2)
RESIDENTIAL & BUSINESS DISTRICTS		
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.



INTERSECTION LANE CLOSURE ~ FIVE LANE ROADWAY

NOT TO SCALE

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PROTECTIVE VEHICLE - RECOMMENDED
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

NOTES

1. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
2. IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
3. MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
4. ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	S:\Design R P & S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-15.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Washington State Department of Transportation	Plot 1
TIME	1:21:25 PM				WASH				PLAN REF NO
DATE	10/14/2016								TC15
PLOTTED BY	liddelf				JOB NUMBER				SHEET
DESIGNED BY					CONTRACT NO.		LOCATION NO.		OF
ENTERED BY									SHEETS
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM.					REVISION	DATE	BY		

TRAFFIC CONTROL PLAN

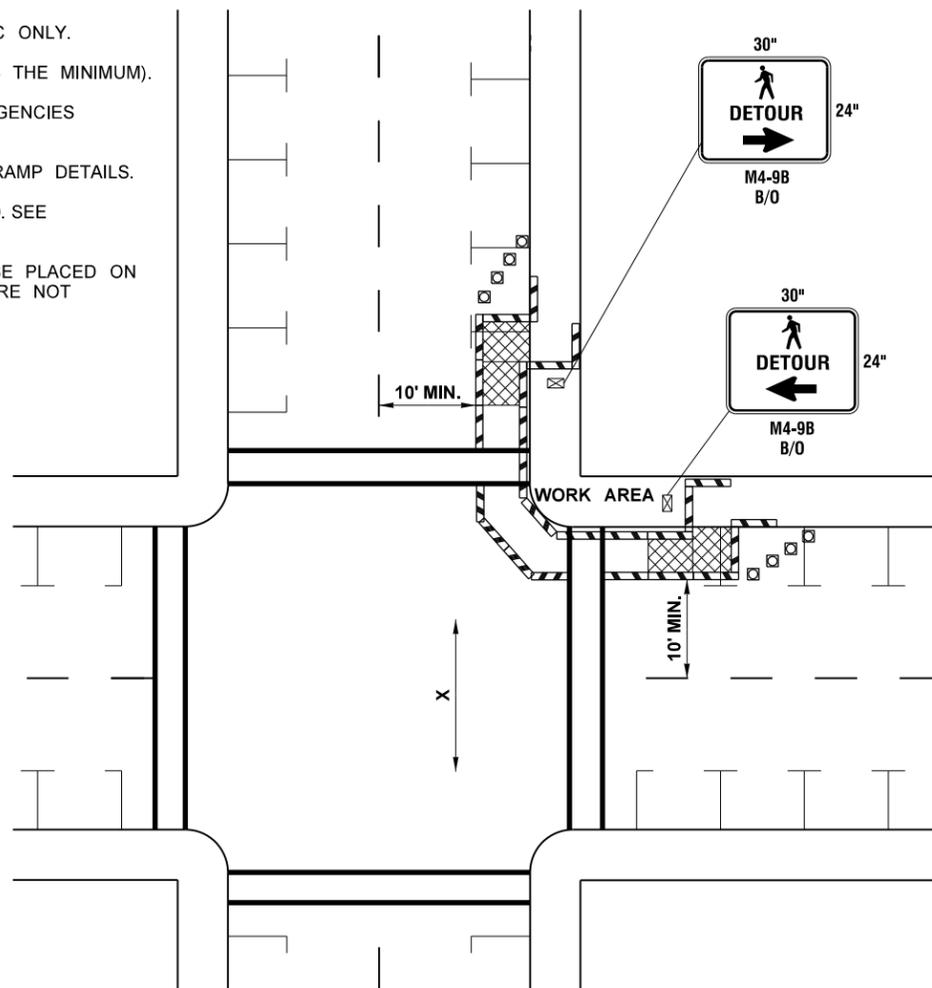


R8-3
24" x 30"
R/W

INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA
24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL.
PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.

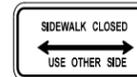
NOTES

1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.
6. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.



SIDEWALK DIVERSION

R9-10
24" x 12"
B/W

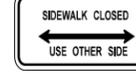
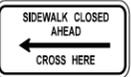


R9-11
24" x 12"
B/W

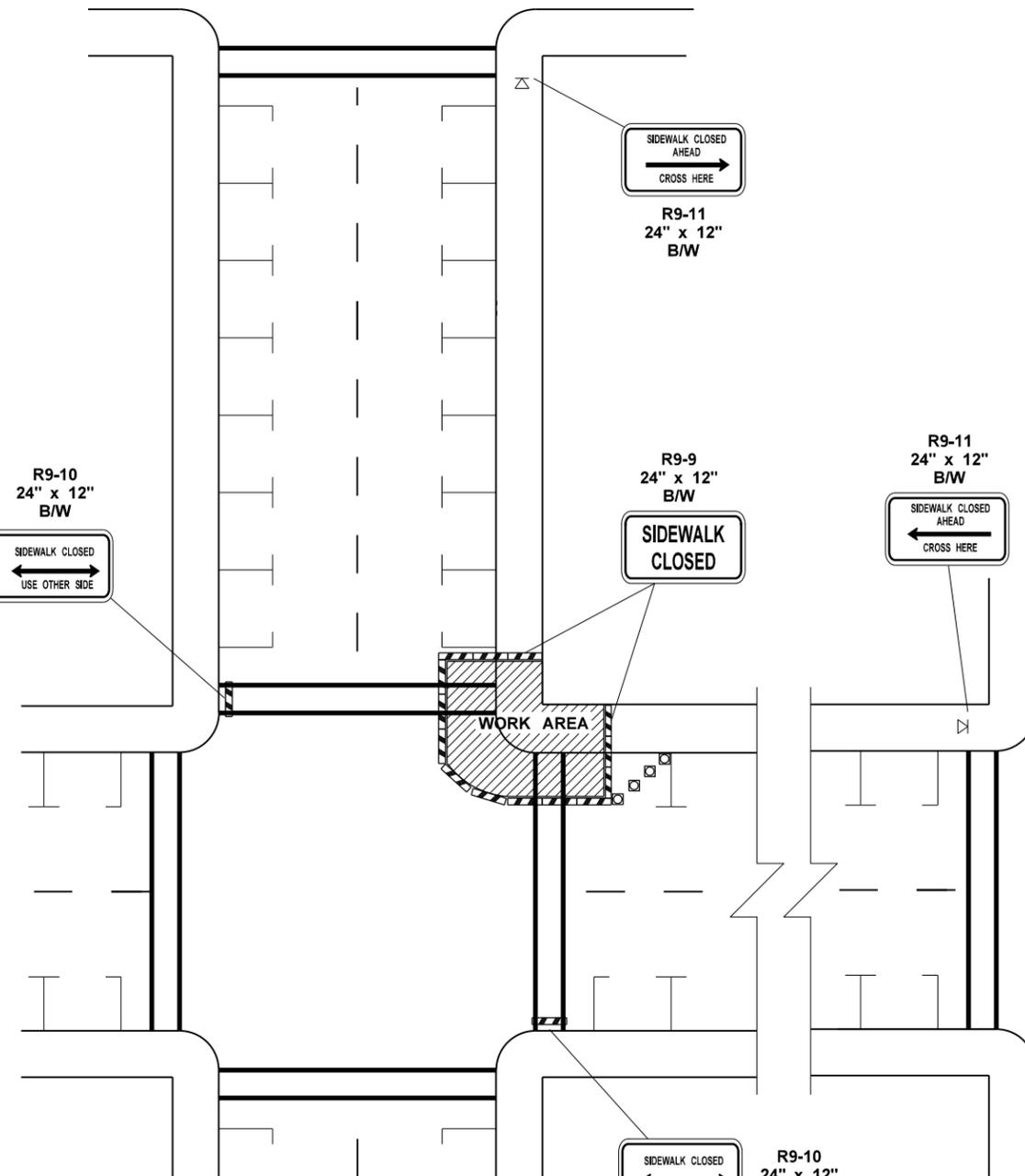
R9-9
24" x 12"
B/W



R9-11
24" x 12"
B/W



R9-10
24" x 12"
B/W



SIDEWALK DETOUR

LEGEND

- ⊠ TEMPORARY SIGN LOCATION
- ⊠ CHANNELIZING DEVICES
- ▨ PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

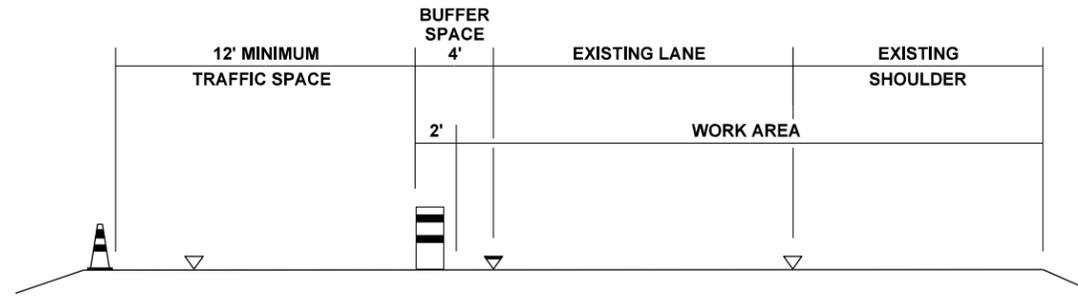
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TIME	1:28:42 PM			
DATE	9/18/2014			
PLOTTED BY	FletcCo	REGION NO.	STATE	FED.AID PROJ.NO.
DESIGNED BY			WASH	
ENTERED BY			JOB NUMBER	
CHECKED BY			CONTRACT NO.	LOCATION NO.
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX



Plot 1
PLAN REF NO TC16
SHEET OF SHEETS
PEDESTRIAN CONTROL AND PROTECTION

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

(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.						HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH				< 45 MPH	45-55 MPH	> 55 MPH			
100'	123'	172'				74'	100'	150'			

TYPICAL SECTION A-A

MINIMUM LANE CLOSURE 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	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

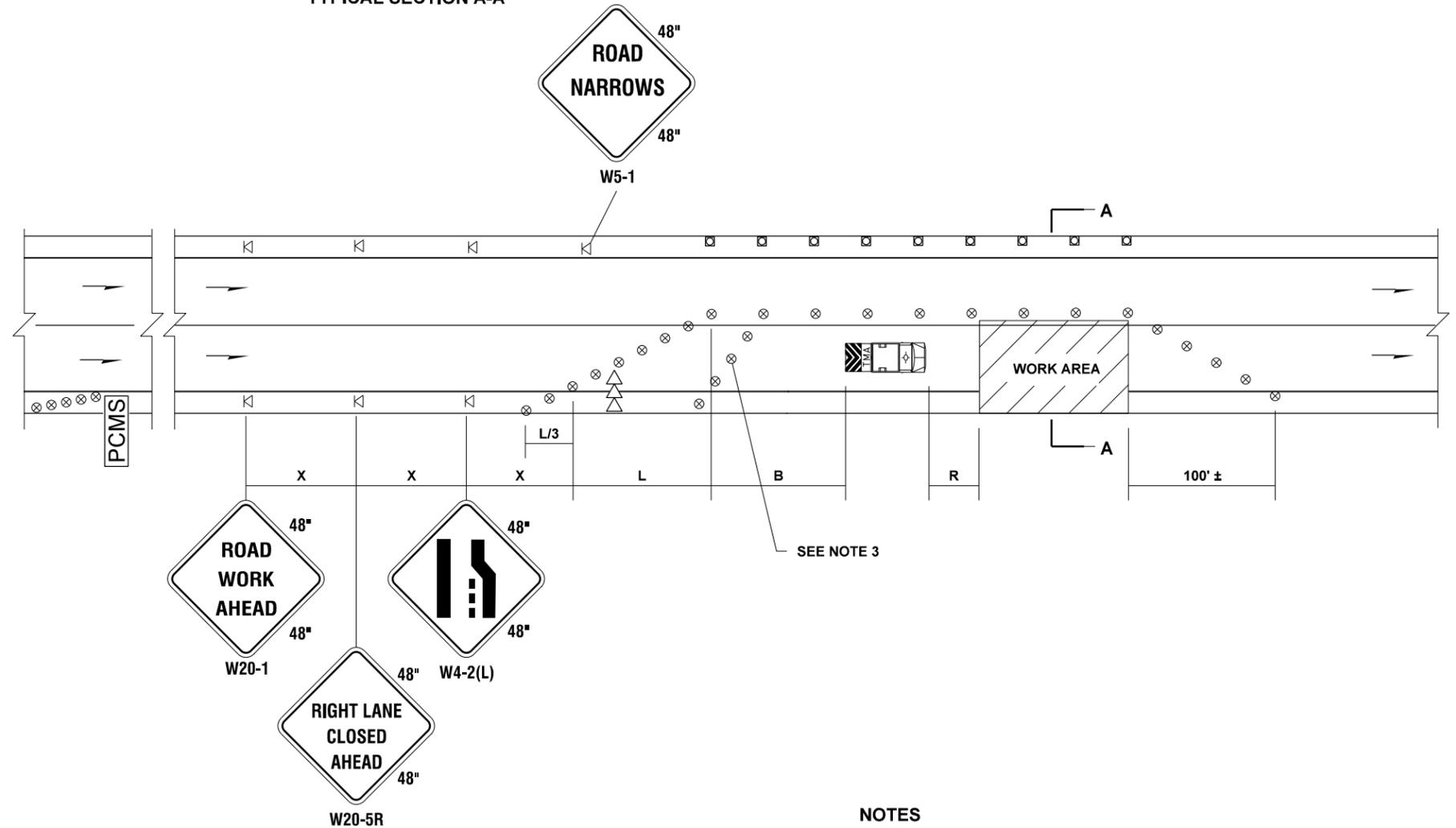
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

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

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

PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

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



SINGLE-LANE CLOSURE WITH SHIFT

NOT TO SCALE

NOTES

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' ± (RECOMMENDED).
- ALL SIGNS ARE BLACK ON ORANGE.
- RECOMMEND ADVANCE NOTICE FOR ANY OVER WIDTH LOADS PRIOR TO LANE CLOSURE FOR ALTERNATE ROUTES IF APPLICABLE.

LEGEND

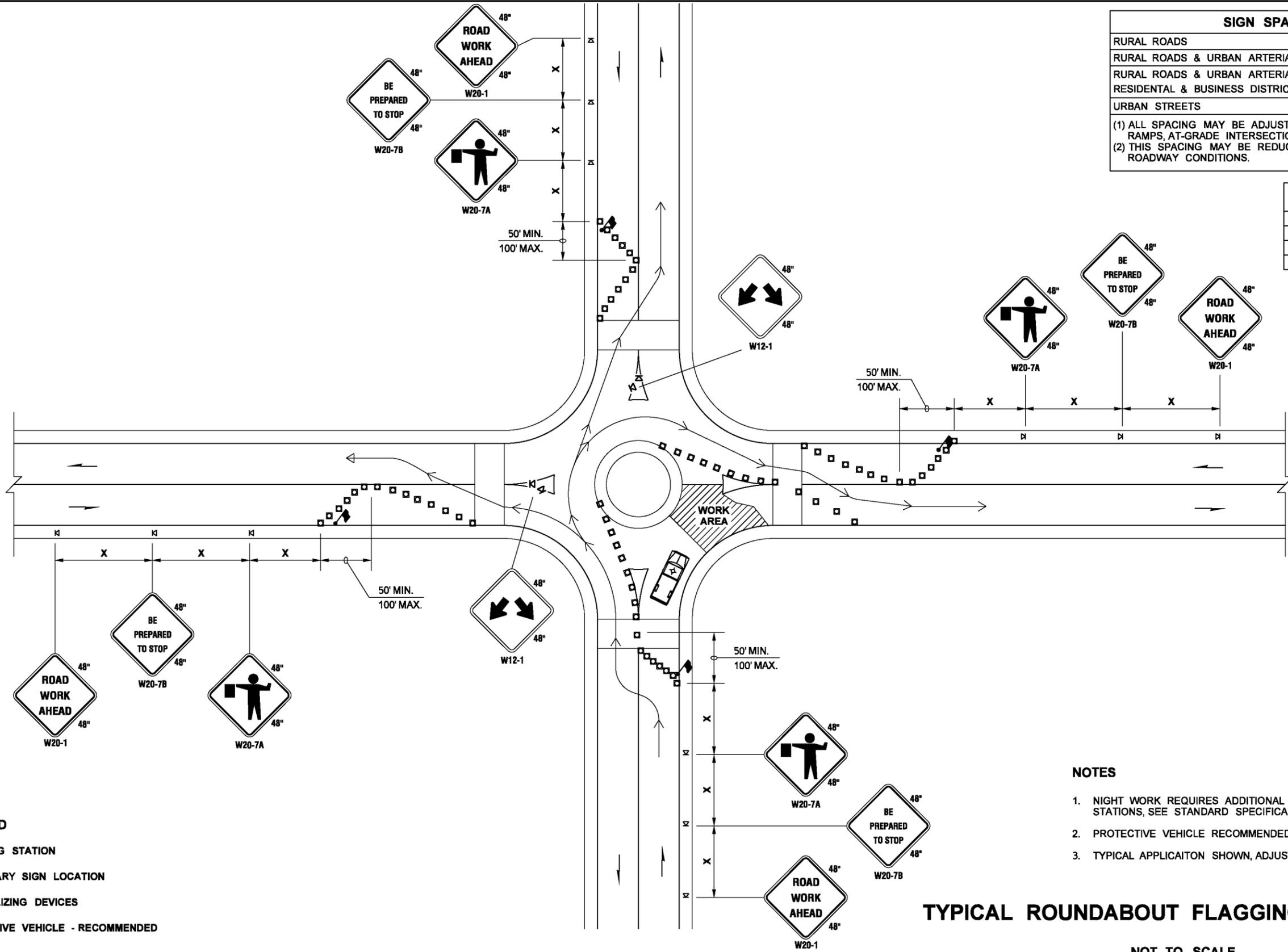
- ⊏ TEMPORARY SIGN LOCATION
- ⊠ CHANNELIZING DEVICES
- ⊗ TRAFFIC SAFETY DRUM
- ⇨⇨ SEQUENTIAL ARROW SIGN
- ⊠ TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME	S:\Design R P & S\4-Standards\2-Plan Sheet Library\02-PSL Work In Progress\Fern\TC1 - TC-17 Buffer Data table replacement\TC-17.dgn										Plot 1
TIME	1:34:47 PM										PLAN REF NO
DATE	10/14/2016										TC17
PLOTTED BY	liddelf										SHEET OF SHEETS
DESIGNED BY											
ENTERED BY											TRAFFIC CONTROL PLAN
CHECKED BY											
PROJ. ENGR.											DATE
REGIONAL ADM.											
REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	LOCATION NO.	P.E. STAMP BOX	P.E. STAMP BOX			

SIGN SPACING = X (1)		
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)

(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.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/55	40	80
35/45	30	60
25/30	20	40



- NOTES**
1. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS, SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
 2. PROTECTIVE VEHICLE RECOMMENDED - MAY BE A WORK VEHICLE.
 3. TYPICAL APPLICATION SHOWN, ADJUST FOR SITE CONDITIONS.

TYPICAL ROUNDABOUT FLAGGING OPERATION

NOT TO SCALE

FILE NAME	S:\Design R P& S4-Standards\2-Plan Sheet Library\01-Published PSL\TC Work Zone Traffic Control\TC-18) Typical Roundabout Flagging Operation\TC-18.dgn										Plot 1
TIME	3:47:03 PM										PLAN REF NO
DATE	1/15/2015										TC18
PLOTTED BY	berensb										SHEET
DESIGNED BY											
ENTERED BY											OF
CHECKED BY											
PROJ. ENGR.											SHEETS
REGIONAL ADM.											
REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	CONTRACT NO.	LOCATION NO.	DATE	P.E. STAMP BOX	DATE	P.E. STAMP BOX
				WASH							

