

RECOMMENDED SIGN SPACING = X (1)		
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.

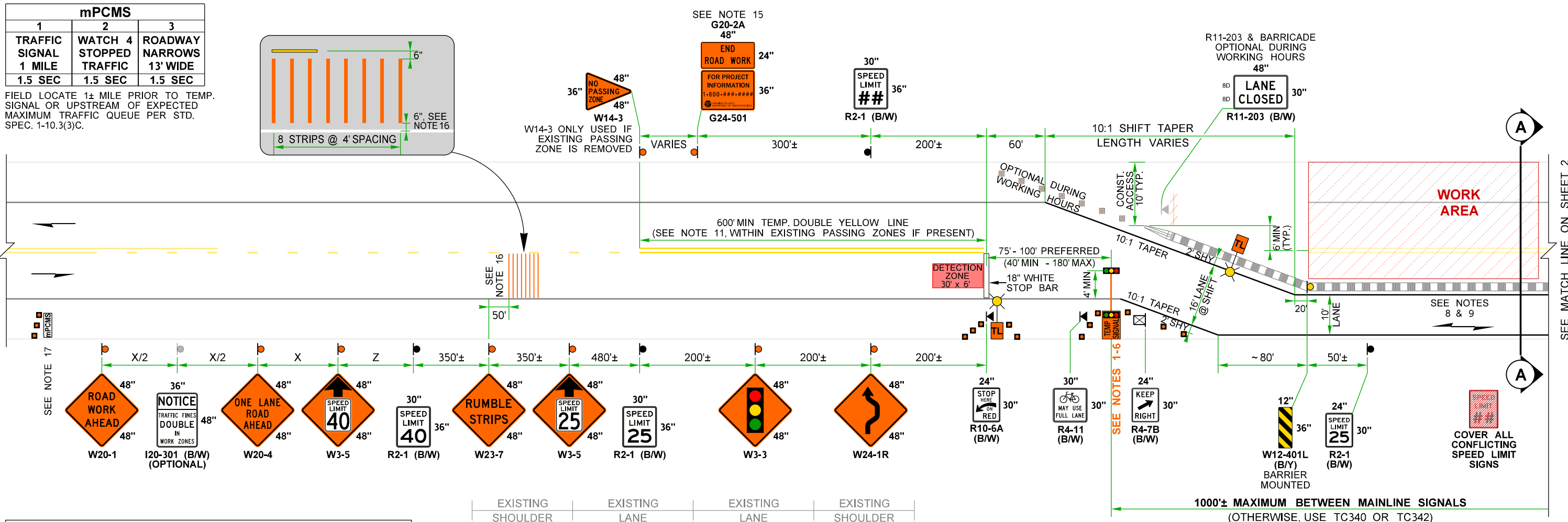
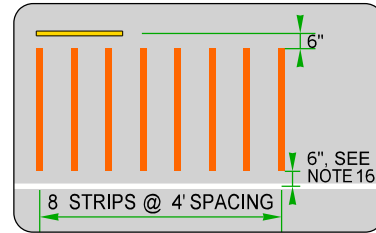
MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 3.

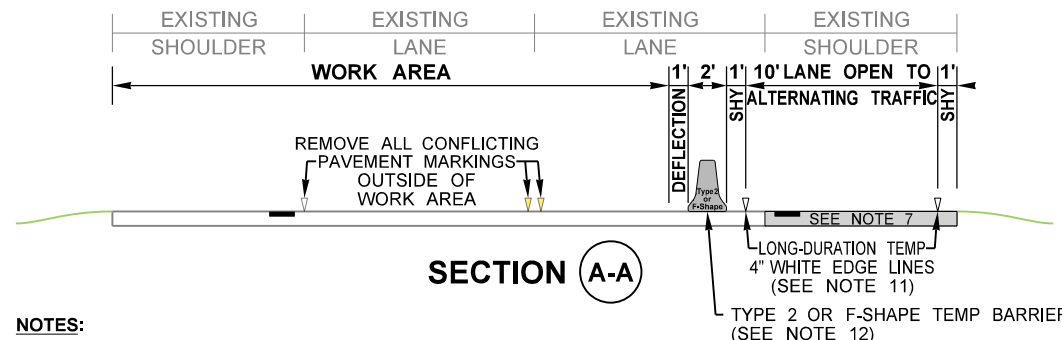
mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC	ROADWAY NARROWS 13' WIDE
1.5 SEC	1.5 SEC	1.5 SEC

FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.



LEGEND:

- CLASS A SIGN LOCATION (POST OR BARRIER-MOUNTED)
- ⊙ CLASS A TRIPOD-MOUNTED SIGN LOCATION (1' MIN HEIGHT)
- ⊙ CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)
- 28" TRAFFIC CONES (SEE NOTE 10)
- ▬ UNANCHORED TEMPORARY BARRIER (SEE NOTE 12)
- ▬ SLOPED BARRIER TERMINAL (SEE NOTE 12)
- ▬ TYPE 3 BARRICADE
- ☐ PROTECTIVE VEHICLE
- ⊙ TEMP SIGNAL
- ⊙ COMPACT TEMP. TRAFFIC SIGNAL (SEE NOTES 1-6)
- ☀ TEMPORARY LIGHTING (SEE NOTE 6)
- ▬ ADHESIVE TEMPORARY RUMBLE STRIPS (SEE NOTE 16)
- mPCMS mini PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 17)



- NOTES:**
1. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. THIS SIGNAL TIMING PLAN ACCOMMODATES BOTH VEHICLES AND BICYCLES EVERY CYCLE. THE SIGNAL IS TIMED FOR VEHICLES, BUT THE ALL-RED CLEARANCE INTERVAL IS EXTENDED EVERY TIME TO ALLOW BICYCLES TO CLEAR THE LANE CLOSURE FROM THE STOP BAR AT THE END OF THE YELLOW PHASE. THIS WILL INCREASE TRAFFIC QUEUES AND DELAYS TO ALL BECAUSE IT REDUCES THE WORK ZONE CAPACITY.
 2. TEMPORARY SIGNALS ARE FULLY ACTUATED CONTROLLED VIA VIDEO AND/OR RADAR DETECTION. WHEN NO VEHICLES DETECTED IN ANY DIRECTION, ALL TRAFFIC SIGNAL REST IN RED DISPLAY UNTIL THE NEXT VEHICLE IS DETECTED WHICH RECEIVES THE IMMEDIATE GREEN DISPLAY TO MINIMIZE DISPLAYS.

3. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EM AIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.
4. AVOID PLACING TEMPORARY SIGNALS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE OR EXTENDING WORK AREA.
5. TEMPORARY TRAFFIC SIGNALS LOCATED WITHIN 1/4 MILE OF A RAILROAD GRADE CROSSING SHALL BE EVALUATED FOR RAILROAD PREEMPTION. CONTACT REGION TRAFFIC OPERATIONS.
6. WHEN PRACTICAL, PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM TRAVEL LANE TO TEMPORARY SIGNAL AND TEMPORARY LIGHTING. ACCEPTABLE TO PLACE THESE DEVICES BEHIND EXISTING GUARDRAIL OR BARRIER, BUT VERIFY STRUCTURAL LOADING ON TEMP SIGNAL MAST ARM IS SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT ENGINEER PRIOR TO INSTALLING.
7. EXISTING SHOULDER PAVEMENT MAY NEED TO BE REBUILT TO FULL-DEPTH TO HANDLE TRAFFIC LONG TERM. AT A MINIMUM, REMOVE EXISTING RUMBLE STRIP VIA MILL & HMA FILL. VERIFY EXISTING ITS BOXES AND CATCH BASINS ARE TRAFFIC WORTHY PRIOR TO PLACING TRAFFIC ON SHOULDER LONG-TERM.

SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + TEMP BARRIER + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)

NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn					Plot 1
TIME	7:18:11 AM					PLAN REF NO
DATE	4/22/2024					TC341
PLOTTED BY	LintzF					SHEET 1 OF 6 SHEETS
DESIGNED BY						
ENTERED BY						TYPICAL TRAFFIC CONTROL PLANS
CHECKED BY						
PROJ. ENGR.						Washington State Department of Transportation
REGIONAL ADM.						
REVISION	DATE	BY	FED.AID PROJ.NO.	10	WASH	
			JOB NUMBER			
			CONTRACT NO.			
			LOCATION NO.			
			DATE			
			P.E. STAMP BOX			

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 3.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT #:##

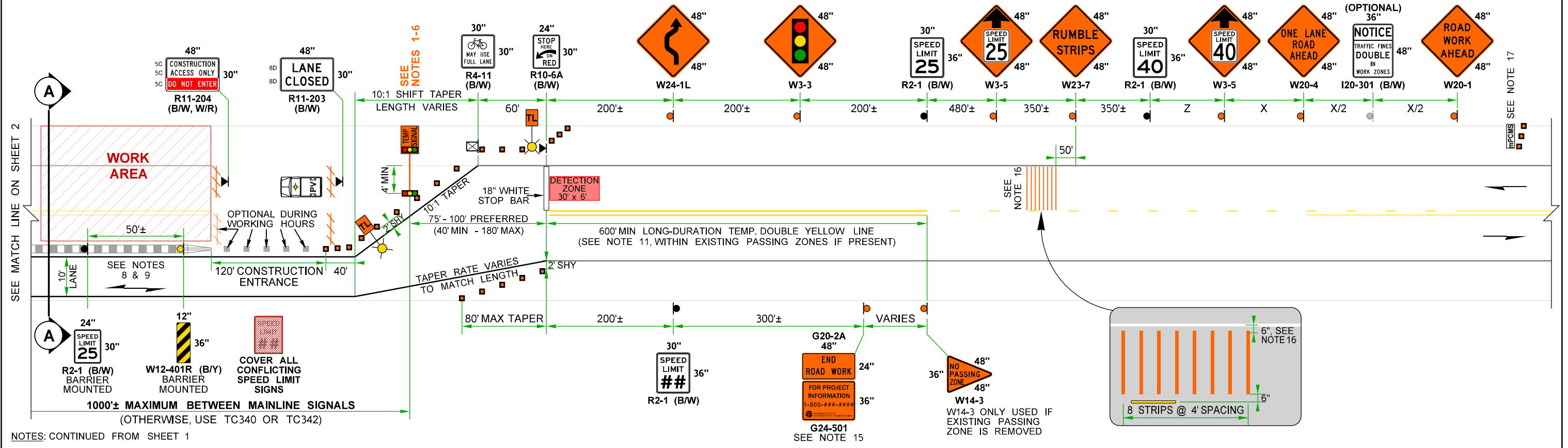
#:## = MINUTES:SECONDS UNTIL GREEN. LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

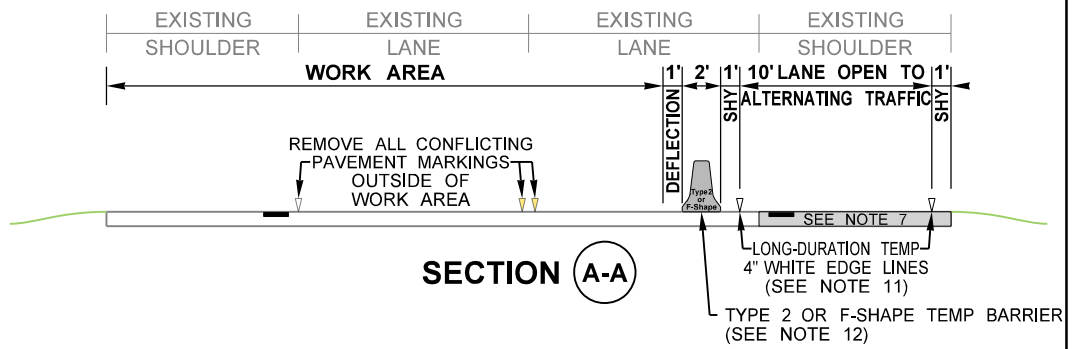
FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.

mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC	ROADWAY NARROWS 13' WIDE
1.5 SEC	1.5 SEC	1.5 SEC



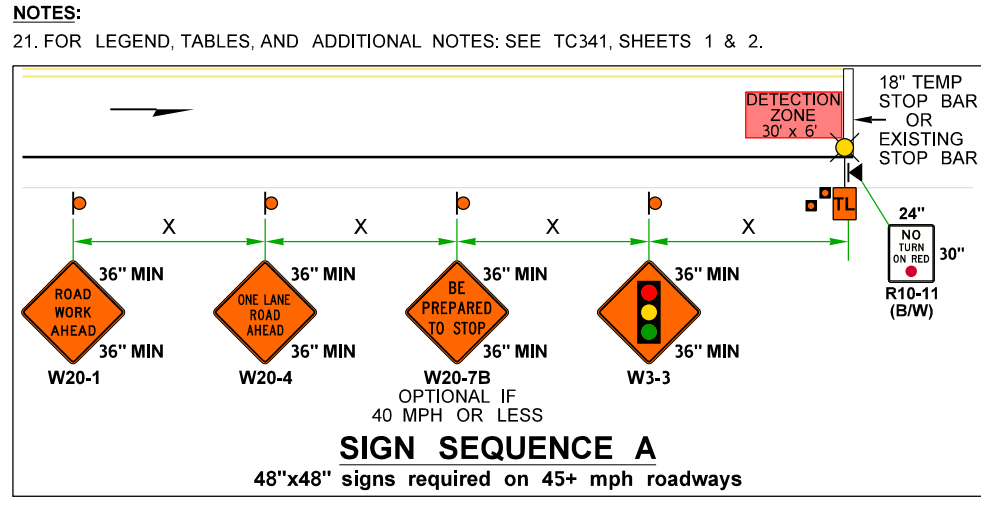
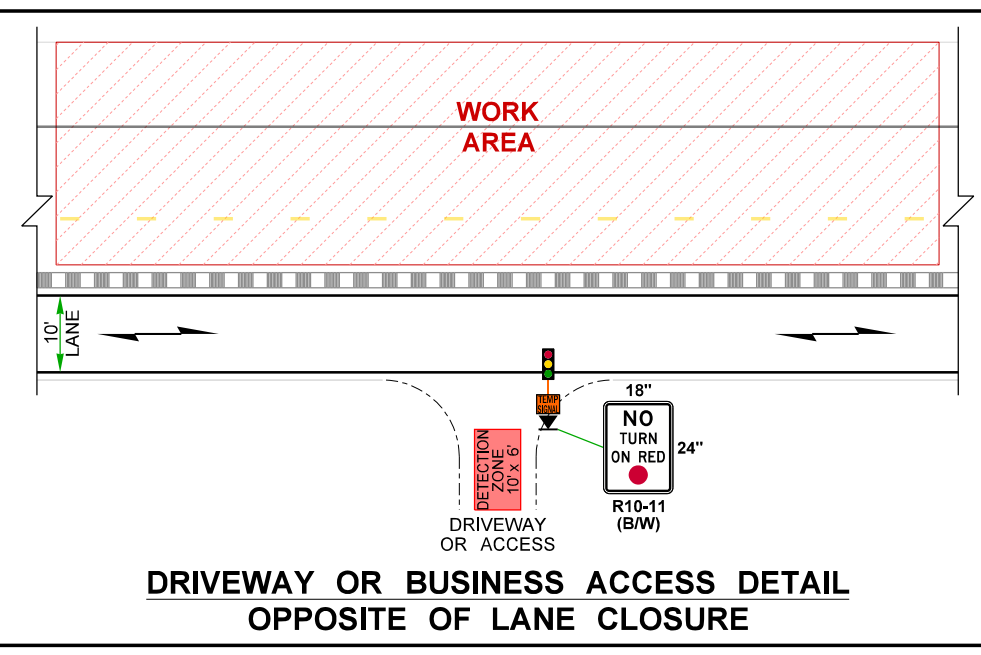
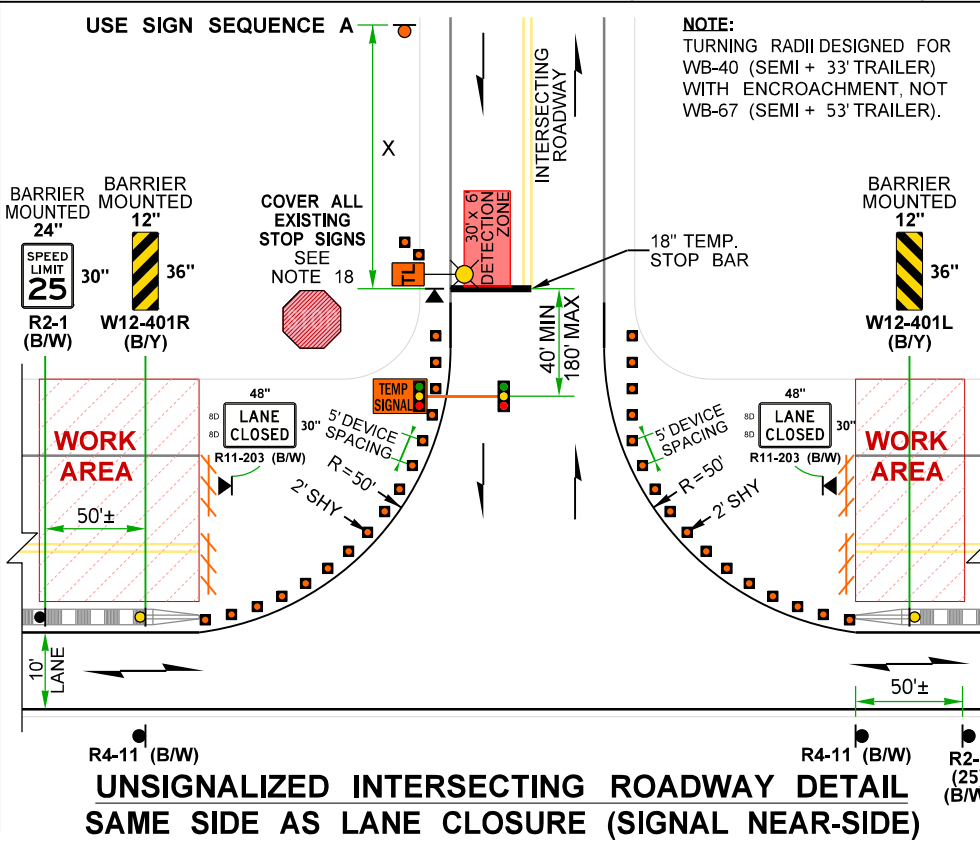
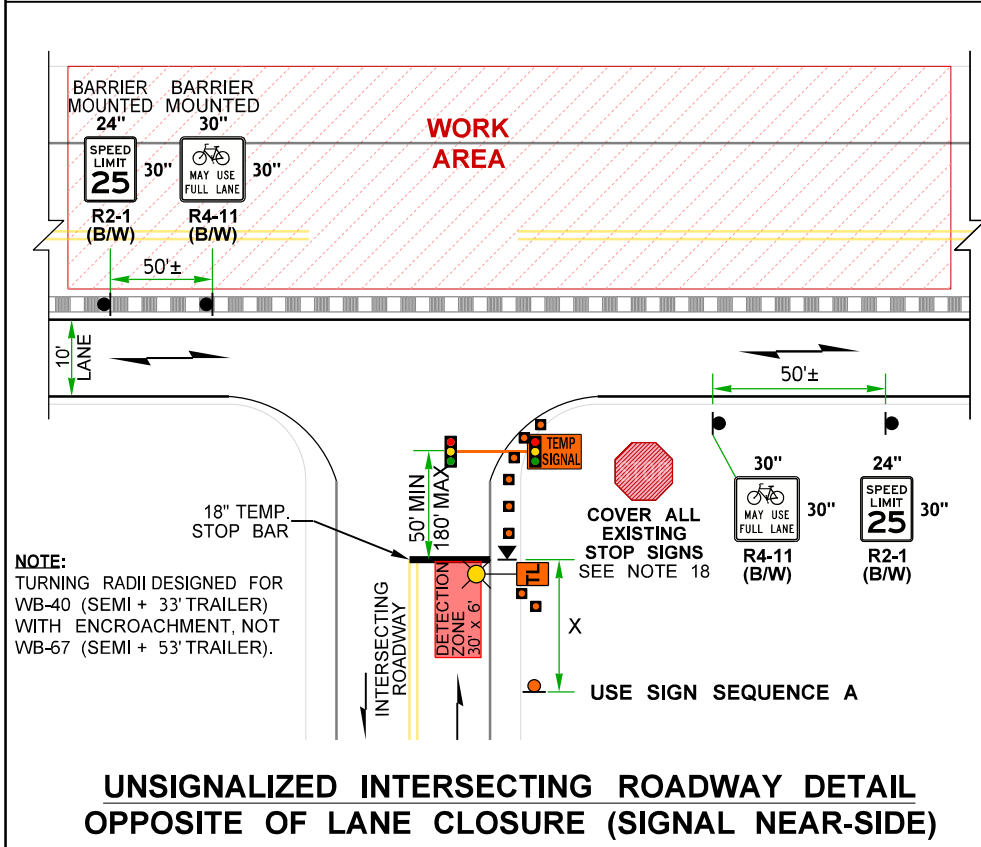
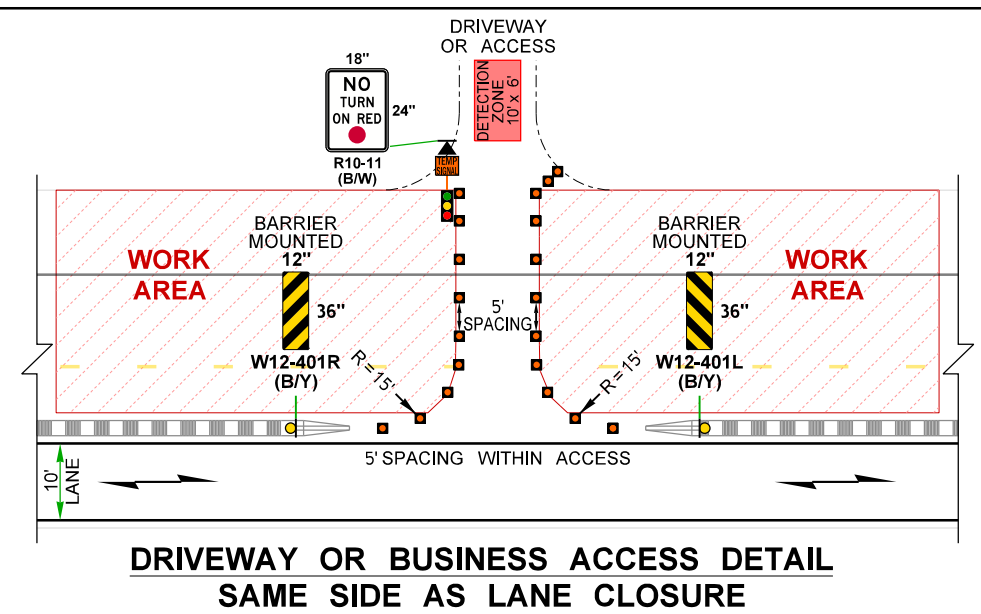
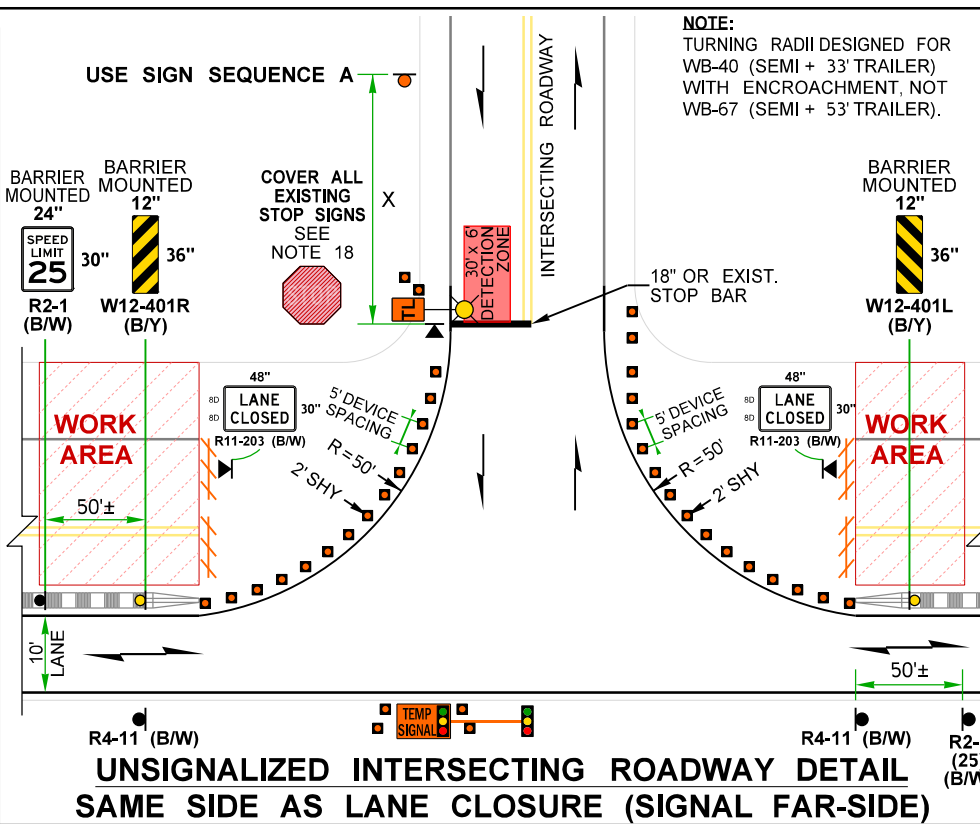
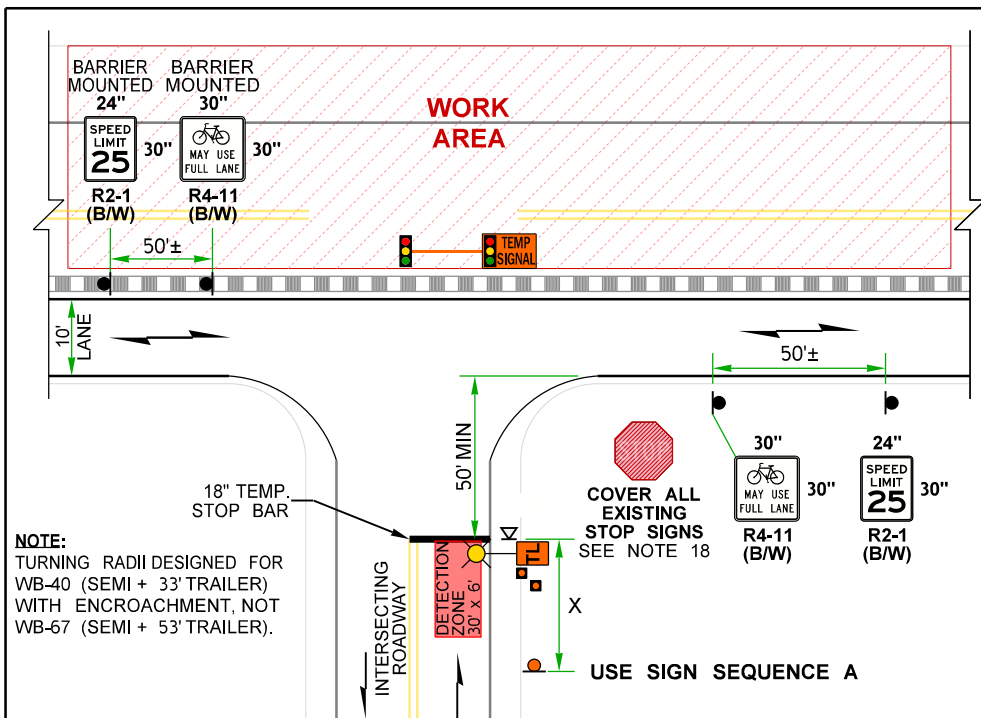
- NOTES: CONTINUED FROM SHEET 1
- 8. BICYCLISTS ARE COMBINED WITH VEHICULAR TRAFFIC THROUGH THE LANE CLOSURE.
 - 9. ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE OR ANOTHER METHOD THE ENGINEER ACCEPTS.
 - 10. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
 - 11. EXISTING CENTERLINE PAVEMENT MARKINGS MAY VARY. IF PASSING ZONE PRESENT WITHIN 600' OF TEMPORARY STOP BAR, REMOVE EXISTING CENTERLINE MARKING AND INSTALL LONG-DURATION TEMP. DOUBLE YELLOW LINE (MAY BE SUPPLEMENTED WITH SURFACE-MOUNTED TYPE 2YY RPMs @ 40' SPACING). ALL OTHER CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMP. TAPE (THOSE WITHIN THE WORK AREA MAY REMAIN AS SHOWN).
 - 12. TYPE 2 OR F-SHAPE TEMPORARY BARRIER PERMITTED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. TYPE 2 TEMPORARY BARRIER AND SLOPED CONCRETE TERMINAL PER STANDARD PLAN K80-32. F-SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
 - 13. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
 - 1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
 - 6-10.3(5) TEMPORARY BARRIER
 - 8-23.3(4)B TEMPORARY PAVEMENT MARKINGS - LONG DURATION
 - 9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL

- 14. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- 15. WSDOT PROJECT ENGINEERING OFFICE WILL PROVIDE PHONE NUMBER.
- 16. SECURE TEMPORARY RUMBLE STRIPS TO PAVEMENT VIA ADHESIVE (DO NOT USE PRIMER). FOR ROADWAYS WITH SHOULDERS LESS THAN 4 FEET, PROVIDE A 4-FOOT CLEAR PATH FOR BICYCLES MEASURED FROM EDGE OF PAVED SHOULDER. AVOID PLACING THEM WITHIN HORIZONTAL CURVES, ADJUST SIGN SPACING IF NEEDED. USE THE FOLLOWING:
 - * Simple Traffic Marking (ATM) Self-Adhesive Rumble Strips (1/4" x 4", Orange)
 - * Stop-Painting (1/4" x 4", Orange)
 - * Seton (1/4" x 4", Orange)
- 17. FULL-SIZE PCMS MAY BE USED IN LIEU OF mPCMS WHERE SPACE ALLOWS.
- 18. REMOVE OR COVER ALL CONFLICTING SIGNAGE PER STD. SPEC. 1-10.3(3)A.
- 19. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- 20. CONTACT WSDOT COMMERCIAL VEHICLE SERVICES AT LEAST 7 DAYS IN ADVANCE OF ROADWAY WIDTH RESTRICTIONS. 30 DAY NOTICE REQUIRED ON MA?????????



SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + TEMP BARRIER + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS) NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPS\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn					Plot 2
TIME	7:18:12 AM					PLAN REF NO
DATE	4/22/2024					TC341
PLOTTED BY	LintzF					 Washington State Department of Transportation
DESIGNED BY						
ENTERED BY						
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	SHEET 2 OF 6 SHEETS
						TYPICAL TRAFFIC CONTROL PLANS



**SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC
25 WZSL + TEMP BARRIER + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)
NOT TO SCALE**

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn	REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	
TIME	7:18:12 AM	JOB NUMBER		CONTRACT NO.		LOCATION NO.	
DATE	4/22/2024	DATE		DATE		DATE	
PLOTTED BY	LintzF	REVISION		DATE		BY	
DESIGNED BY							
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.							



Plot 3
PLAN REF NO
TC341

SHEET
3
OF
6
SHEETS
TYPICAL TRAFFIC CONTROL PLANS

RECOMMENDED SIGN SPACING = X (1)		
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.

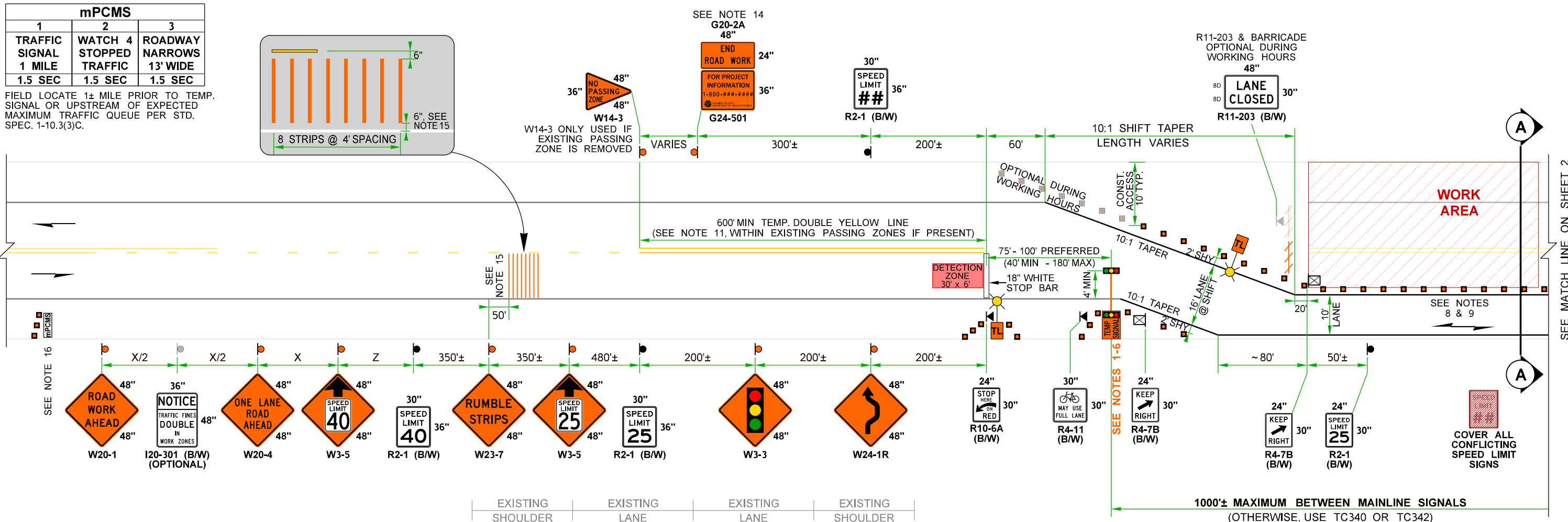
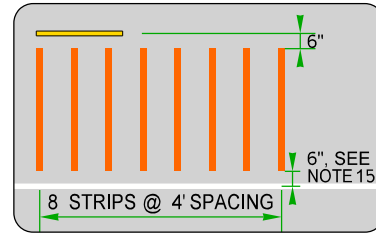
MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

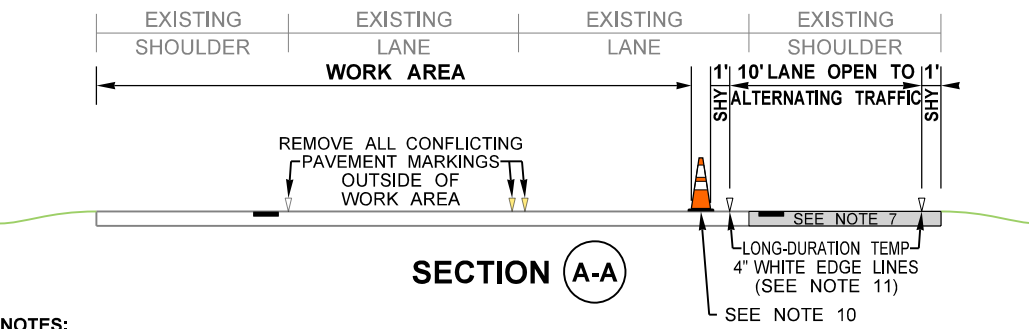
FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 6.

mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC	ROADWAY NARROWS 13' WIDE
1.5 SEC	1.5 SEC	1.5 SEC

FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.



- LEGEND:**
- CLASS A SIGN LOCATION (POST OR BARRIER-MOUNTED)
 - ▲ CLASS A TRIPOD-MOUNTED SIGN LOCATION (1' MIN HEIGHT)
 - ⊠ CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)
 - 28" TRAFFIC CONES (SEE NOTE 10)
 - ⚡ TYPE 3 BARRICADE
 - 🚚 PROTECTIVE VEHICLE
 - 🚦 TEMPORARY TRAFFIC SIGNAL (SEE NOTES 1-6)
 - 🚦 COMPACT TEMP. TRAFFIC SIGNAL (SEE NOTES 1-6)
 - 🚦 TEMPORARY LIGHTING (SEE NOTE 6)
 - 📢 ADHESIVE TEMPORARY RUMBLE STRIPS (SEE NOTE 15)
 - 📢 miniPORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 16)



- NOTES:**
1. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. TWO SEPARATE SIGNAL TIMING PLANS NEEDED: (1) DEFAULT TIMING PLAN DESIGNED ONLY FOR VEHICLES. (2) MODIFIED SIGNAL TIMING, ACTIVATED BY THE BICYCLE PUSH-BUTTON, THAT EXTENDS THE ALL-RED CLEARANCE INTERVAL ONCE TO ALLOW BICYCLES TO CLEAR THE LANE CLOSURE FROM THE STOP BAR AT THE END OF THE YELLOW PHASE. AFTERWARDS, DEFAULT SIGNAL TIMING RESUMES.
 2. TEMPORARY SIGNALS ARE FULLY ACTUATED CONTROLLED VIA VIDEO AND/OR RADAR DETECTION. WHEN NO VEHICLES DETECTED IN ANY DIRECTION, ALL TRAFFIC SIGNAL REST IN RED DISPLAY UNTIL THE NEXT VEHICLE IS DETECTED WHICH RECEIVES THE IMMEDIATE GREEN DISPLAY TO MINIMIZE DISPLAYS.

3. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EM AIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.
 4. AVOID PLACING TEMPORARY SIGNALS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE OR EXTENDING WORK AREA.
 5. TEMPORARY TRAFFIC SIGNALS LOCATED WITHIN 1/4 MILE OF A RAILROAD GRADE CROSSING SHALL BE EVALUATED FOR RAILROAD PREEMPTION. CONTACT REGION TRAFFIC OPERATIONS.
 6. WHEN PRACTICAL, PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM TRAVEL LANE TO TEMPORARY SIGNAL AND TEMPORARY LIGHTING. ACCEPTABLE TO PLACE THESE DEVICES BEHIND EXISTING GUARDRAIL OR BARRIER, BUT VERIFY STRUCTURAL LOADING ON TEMP SIGNAL MAST ARM IS SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT ENGINEER PRIOR TO INSTALLING.
 7. EXISTING SHOULDER PAVEMENT MAY NEED TO BE REBUILT TO FULL-DEPTH TO HANDLE TRAFFIC LONG TERM. AT A MINIMUM, REMOVE EXISTING RUMBLE STRIP VIA MILL & HMA FILL. VERIFY EXISTING ITS BOXES AND CATCH BASINS ARE TRAFFIC WORTHY PRIOR TO PLACING TRAFFIC ON SHOULDER LONG-TERM.
- NOTES CONTINUED ON SHEET 5.

SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + CHANNELIZING DEVICES + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS) NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn					Plot 4
TIME	7:18:13 AM					PLAN REF NO
DATE	4/22/2024					TC341
PLOTTED BY	LintzF					SHEET 4 OF 6 SHEETS
DESIGNED BY						
ENTERED BY						TYPICAL TRAFFIC CONTROL PLANS
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.						
REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	
			10	WASH		
			JOB NUMBER			
			CONTRACT NO.		LOCATION NO.	
					DATE	
					P.E. STAMP BOX	
					DATE	
					P.E. STAMP BOX	
<p>Washington State Department of Transportation</p>						

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 6.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT #:##

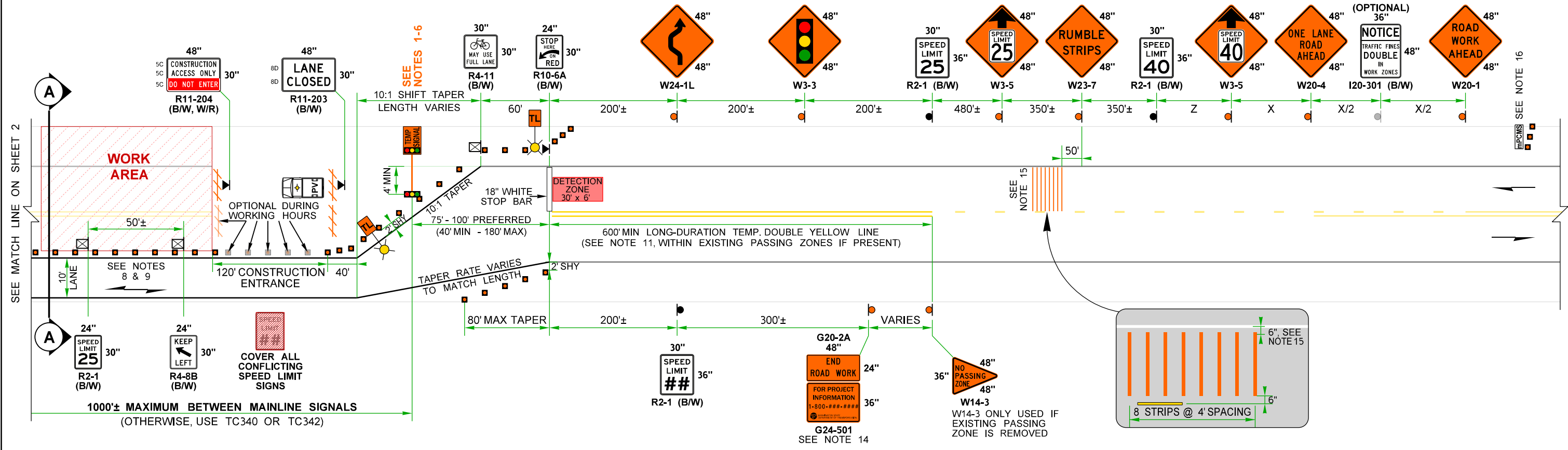
= MINUTES:SECONDS UNTIL GREEN. LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

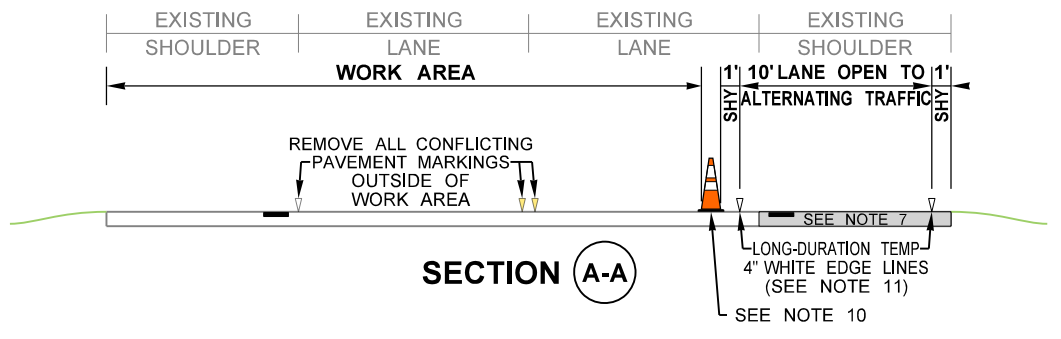
FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.

mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC 1.5 SEC	ROADWAY NARROWS 13' WIDE 1.5 SEC



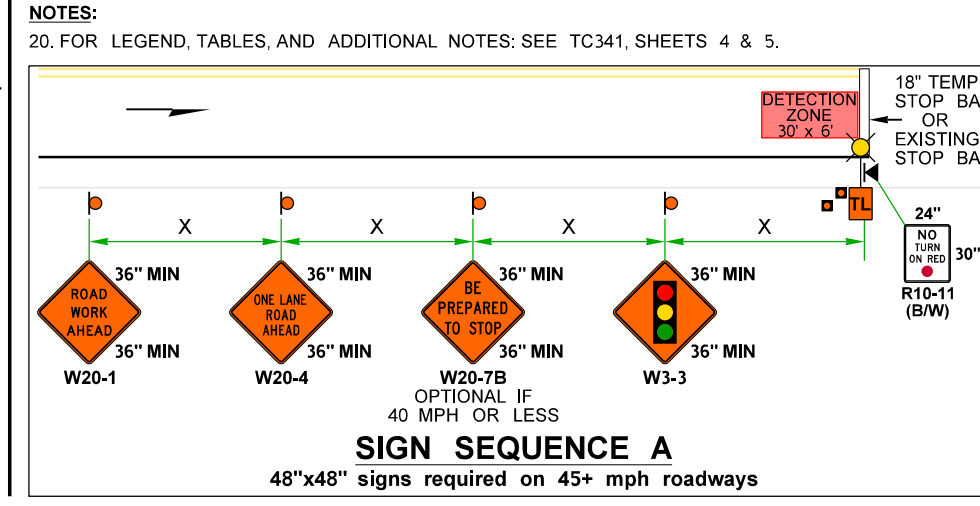
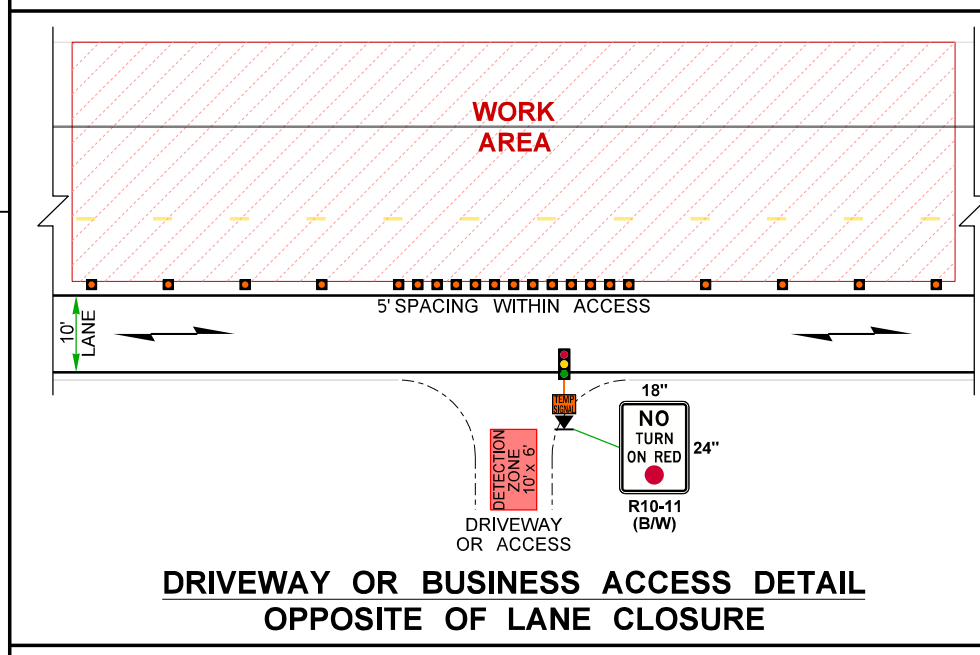
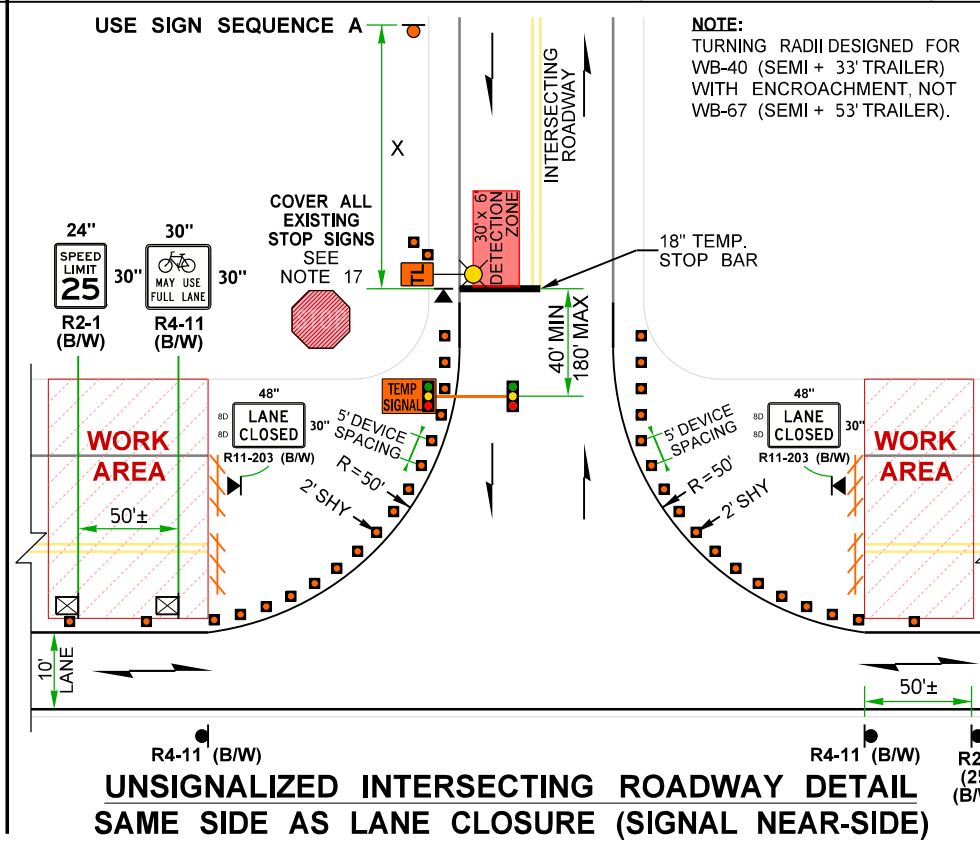
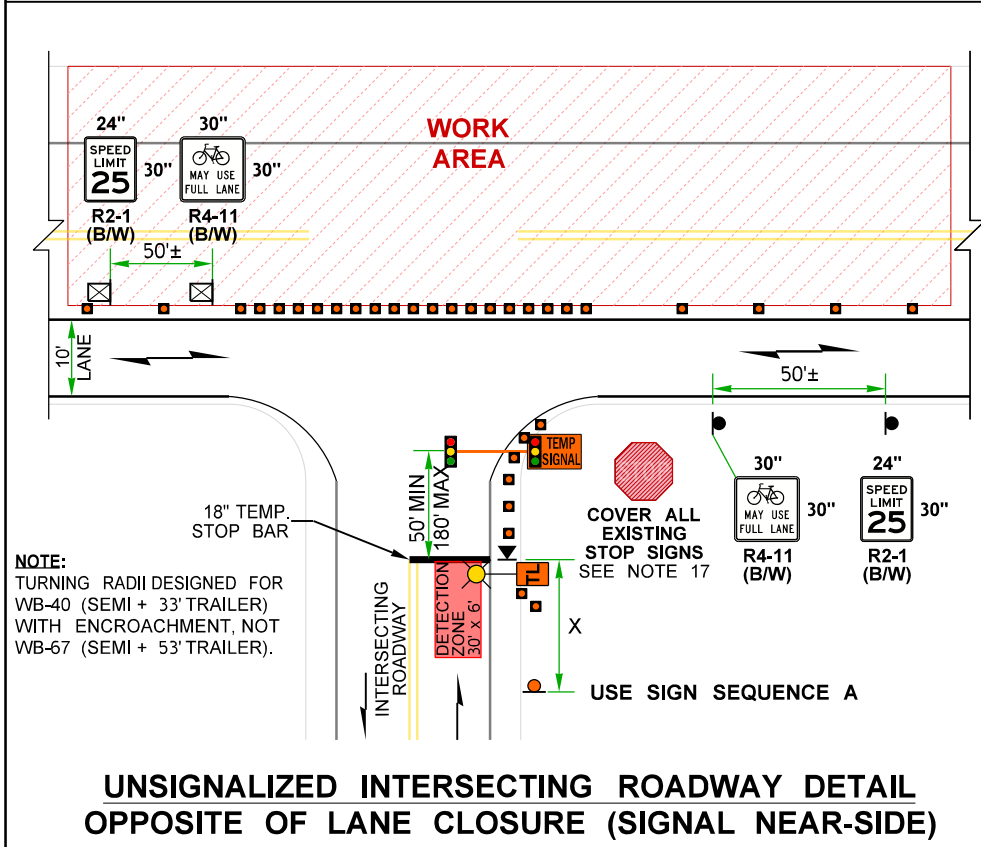
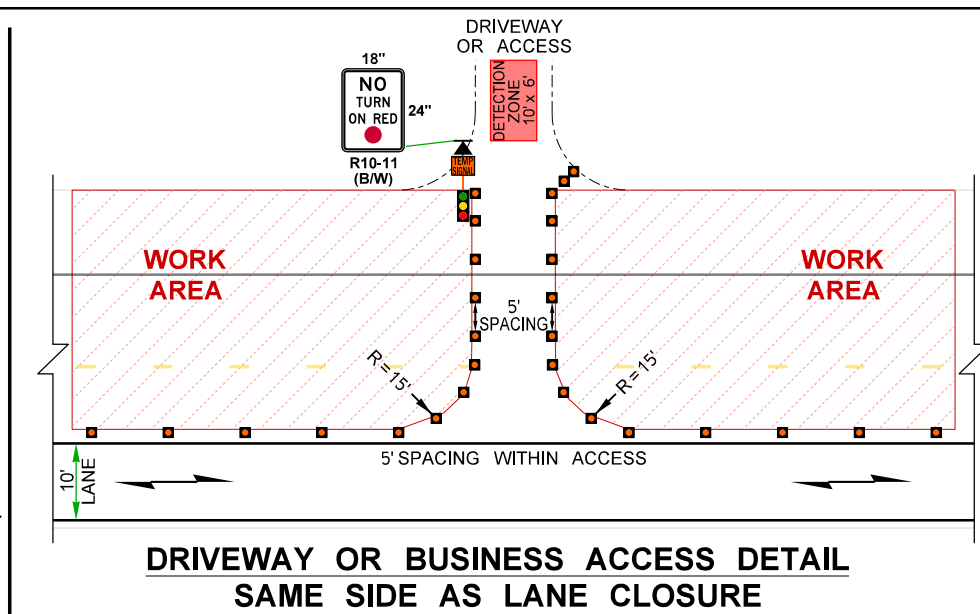
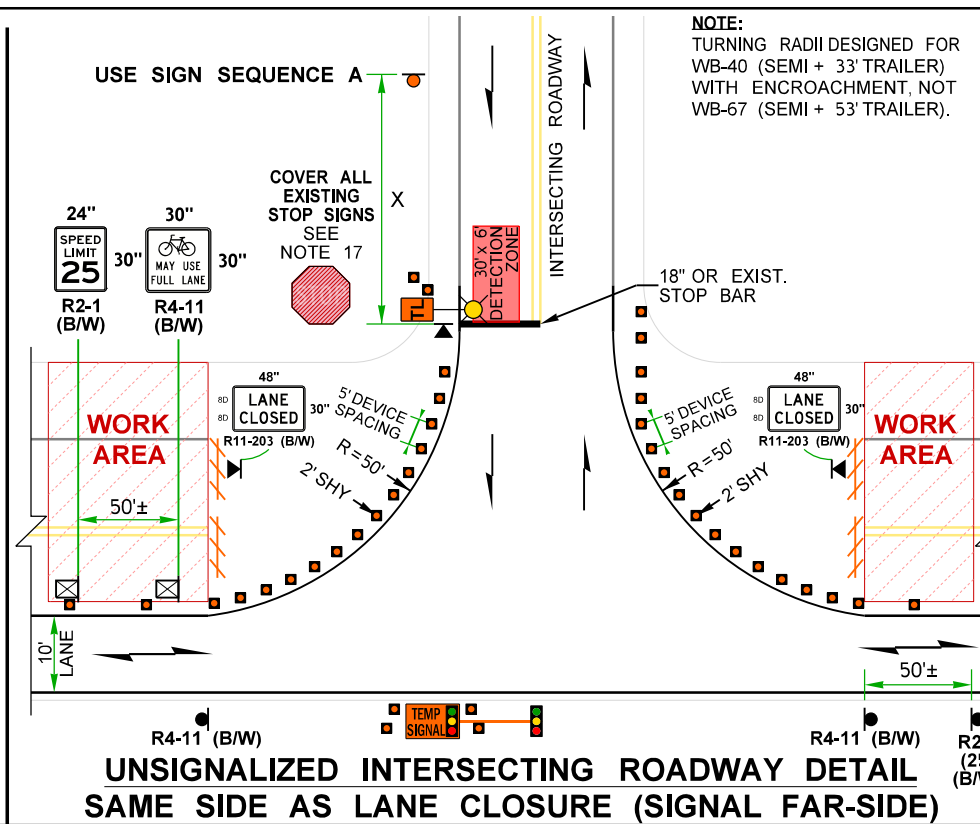
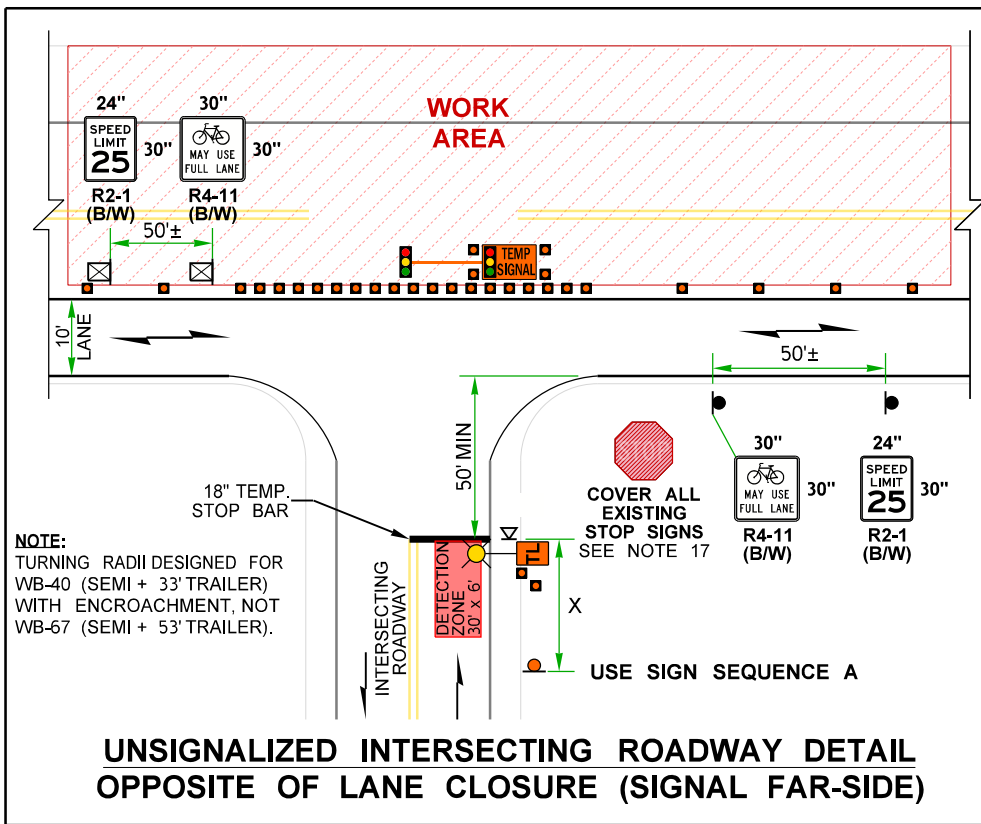
NOTES: CONTINUED FROM SHEET 4

- 8. BICYCLISTS ARE COMBINED WITH VEHICULAR TRAFFIC THROUGH THE LANE CLOSURE.
- 9. ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE OR ANOTHER METHOD THE ENGINEER ACCEPTS.
- 10. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
- 11. EXISTING CENTERLINE PAVEMENT MARKINGS MAY VARY. IF PASSING ZONE PRESENT WITHIN 600' OF TEMPORARY STOP BAR, REMOVE EXISTING CENTERLINE MARKING AND INSTALL LONG-DURATION TEMP. DOUBLE YELLOW LINE (MAY BE SUPPLEMENTED WITH SURFACE-MOUNTED TYPE 2YY RPMs @ 40' SPACING). ALL OTHER CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMP. TAPE (THOSE WITHIN THE WORK AREA MAY REMAIN AS SHOWN).
- 12. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
 - 1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
 - 6-10.3(5) TEMPORARY BARRIER
 - 8-23.3(4)B TEMPORARY PAVEMENT MARKINGS - LONG DURATION
 - 9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
- 13. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- 14. WSDOT PROJECT ENGINEERING OFFICE WILL PROVIDE PHONE NUMBER.
- 15. SECURE TEMPORARY RUMBLE STRIPS TO PAVEMENT VIA ADHESIVE (DO NOT USE PRIMER). FOR ROADWAYS WITH SHOULDERS LESS THAN 4 FEET, PROVIDE A 4-FOOT CLEAR PATH FOR BICYCLES MEASURED FROM EDGE OF PAVED SHOULDER. AVOID PLACING THEM WITHIN HORIZONTAL CURVES, ADJUST SIGN SPACING IF NEEDED. USE THE FOLLOWING:
 - * Simple Traffic Marking (ATM) Self-Adhesive Rumble Strips (1/4" x 4", Orange)
 - * Stop-Painting (1/4" x 4", Orange)
 - * Seton (1/4" x 4", Orange)
- 16. FULL-SIZE PCMS MAY BE USED IN LIEU OF mPCMS WHERE SPACE ALLOWS.
- 17. REMOVE OR COVER ALL CONFLICTING SIGNAGE PER STD. SPEC. 1-10.3(3)A.
- 18. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- 19. CONTACT WSDOT COMMERCIAL VEHICLE SERVICES AT LEAST 7 DAYS IN ADVANCE OF ROADWAY WIDTH RESTRICTIONS. 30 DAY NOTICE REQUIRED ON MA???????



SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + CHANNELIZING DEVICES + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS) NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPS\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn					<p>Washington State Department of Transportation</p>	<p>Plot 5</p> <p>PLAN REF NO TC341</p>
TIME	7:18:14 AM						
DATE	4/22/2024						
PLOTTED BY	LintzF						
DESIGNED BY							
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.							
	REVISION	DATE	BY		DATE	DATE	SHEET 5 OF 6 SHEETS



**SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC
25 WZSL + CHANNELIZING DEVICES + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)
NOT TO SCALE**

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn	REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	
TIME	7:18:14 AM	JOB NUMBER		CONTRACT NO.		LOCATION NO.	
DATE	4/22/2024	DATE		BY			
PLOTTED BY	LintzF						
DESIGNED BY							
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.							
REVISION							



RECOMMENDED SIGN SPACING = X (1)		
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.

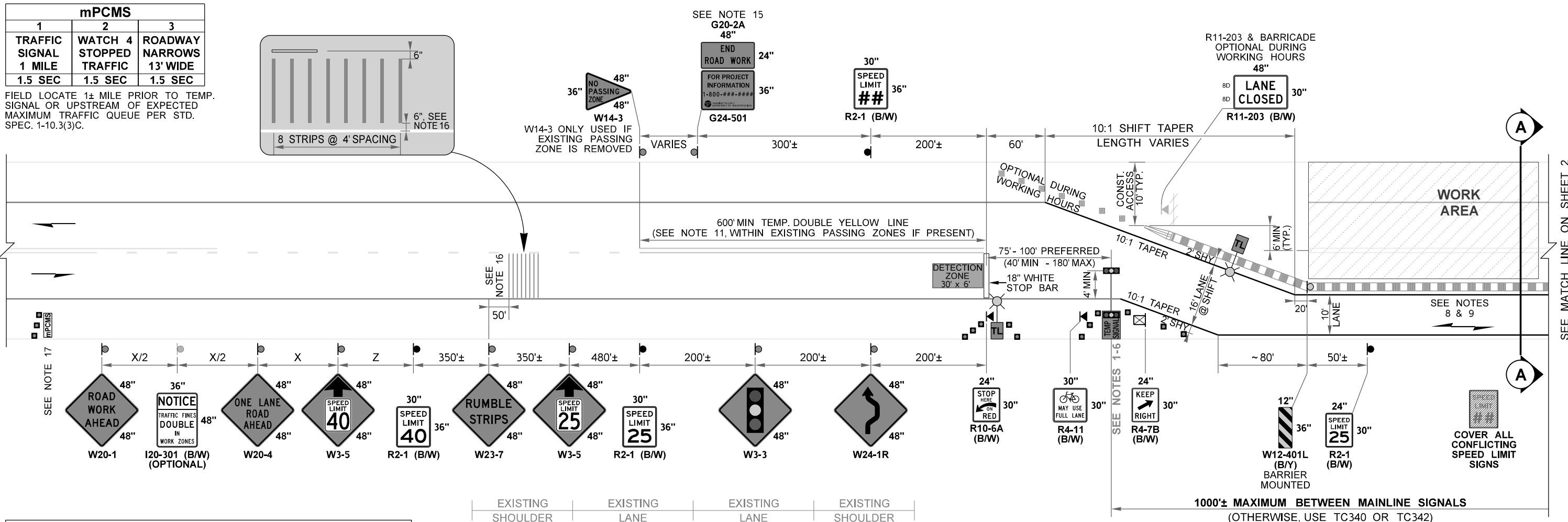
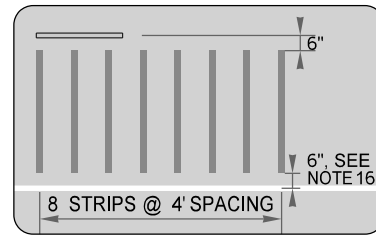
MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 3.

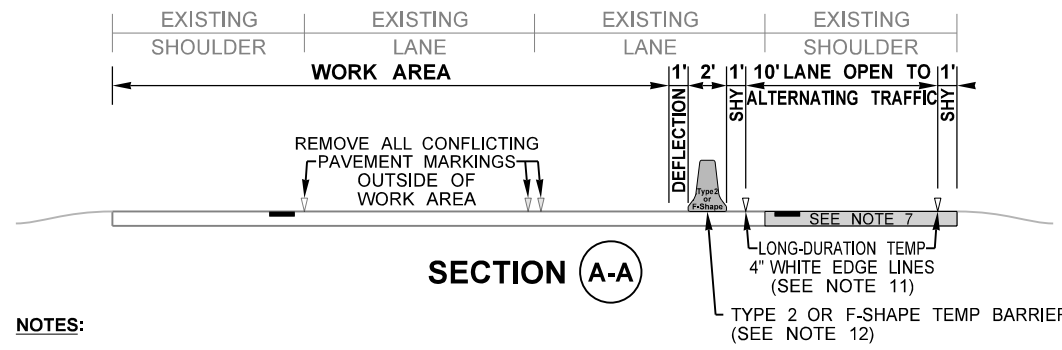
mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC	ROADWAY NARROWS 13' WIDE
1.5 SEC	1.5 SEC	1.5 SEC

FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.



LEGEND:

- CLASS A SIGN LOCATION (POST OR BARRIER-MOUNTED)
- ⊙ CLASS A TRIPOD-MOUNTED SIGN LOCATION (1' MIN HEIGHT)
- ⊙ CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)
- 28" TRAFFIC CONES (SEE NOTE 10)
- ▨ UNANCHORED TEMPORARY BARRIER (SEE NOTE 12)
- ▨ SLOPED BARRIER TERMINAL (SEE NOTE 12)
- ▨ TYPE 3 BARRICADE
- ⊙ PROTECTIVE VEHICLE
- ⊙ TEMPORARY TRAFFIC SIGNAL (SEE NOTES 1-6)
- ⊙ COMPACT TEMP. TRAFFIC SIGNAL (SEE NOTES 1-6)
- ⊙ TEMPORARY LIGHTING (SEE NOTE 6)
- ▨ ADHESIVE TEMPORARY RUMBLE STRIPS (SEE NOTE 16)
- ⊙ miniPORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 17)



- NOTES:**
1. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. THIS SIGNAL TIMING PLAN ACCOMMODATES BOTH VEHICLES AND BICYCLES EVERY CYCLE. THE SIGNAL IS TIMED FOR VEHICLES, BUT THE ALL-RED CLEARANCE INTERVAL IS EXTENDED EVERY TIME TO ALLOW BICYCLES TO CLEAR THE LANE CLOSURE FROM THE STOP BAR AT THE END OF THE YELLOW PHASE. THIS WILL INCREASE TRAFFIC QUEUES AND DELAYS TO ALL BECAUSE IT REDUCES THE WORK ZONE CAPACITY.
 2. TEMPORARY SIGNALS ARE FULLY ACTUATED CONTROLLED VIA VIDEO AND/OR RADAR DETECTION. WHEN NO VEHICLES DETECTED IN ANY DIRECTION, ALL TRAFFIC SIGNAL REST IN RED DISPLAY UNTIL THE NEXT VEHICLE IS DETECTED WHICH RECEIVES THE IMMEDIATE GREEN DISPLAY TO MINIMIZE DISPLAYS.

3. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EM AIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.
 4. AVOID PLACING TEMPORARY SIGNALS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE OR EXTENDING WORK AREA.
 5. TEMPORARY TRAFFIC SIGNALS LOCATED WITHIN 1/4 MILE OF A RAILROAD GRADE CROSSING SHALL BE EVALUATED FOR RAILROAD PREEMPTION. CONTACT REGION TRAFFIC OPERATIONS.
 6. WHEN PRACTICAL, PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM TRAVEL LANE TO TEMPORARY SIGNAL AND TEMPORARY LIGHTING. ACCEPTABLE TO PLACE THESE DEVICES BEHIND EXISTING GUARDRAIL OR BARRIER, BUT VERIFY STRUCTURAL LOADING ON TEMP SIGNAL MAST ARM IS SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT ENGINEER PRIOR TO INSTALLING.
 7. EXISTING SHOULDER PAVEMENT MAY NEED TO BE REBUILT TO FULL-DEPTH TO HANDLE TRAFFIC LONG TERM. AT A MINIMUM, REMOVE EXISTING RUMBLE STRIP VIA MILL & HMA FILL. VERIFY EXISTING ITS BOXES AND CATCH BASINS ARE TRAFFIC WORTHY PRIOR TO PLACING TRAFFIC ON SHOULDER LONG-TERM.
- NOTES CONTINUED ON SHEET 2.

SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + TEMP BARRIER + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)

NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn					Plot 1
TIME	7:18:15 AM					PLAN REF NO
DATE	4/22/2024					TC341
PLOTTED BY	LintzF					 Washington State Department of Transportation
DESIGNED BY						
ENTERED BY						SHEET 1 OF 6 SHEETS
CHECKED BY						TYPICAL TRAFFIC CONTROL PLANS
PROJ. ENGR.						
REGIONAL ADM.						
REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	
			10	WASH		
			JOB NUMBER			
			CONTRACT NO.		LOCATION NO.	
					DATE	
					P.E. STAMP BOX	
					DATE	
					P.E. STAMP BOX	

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 3.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT #:##

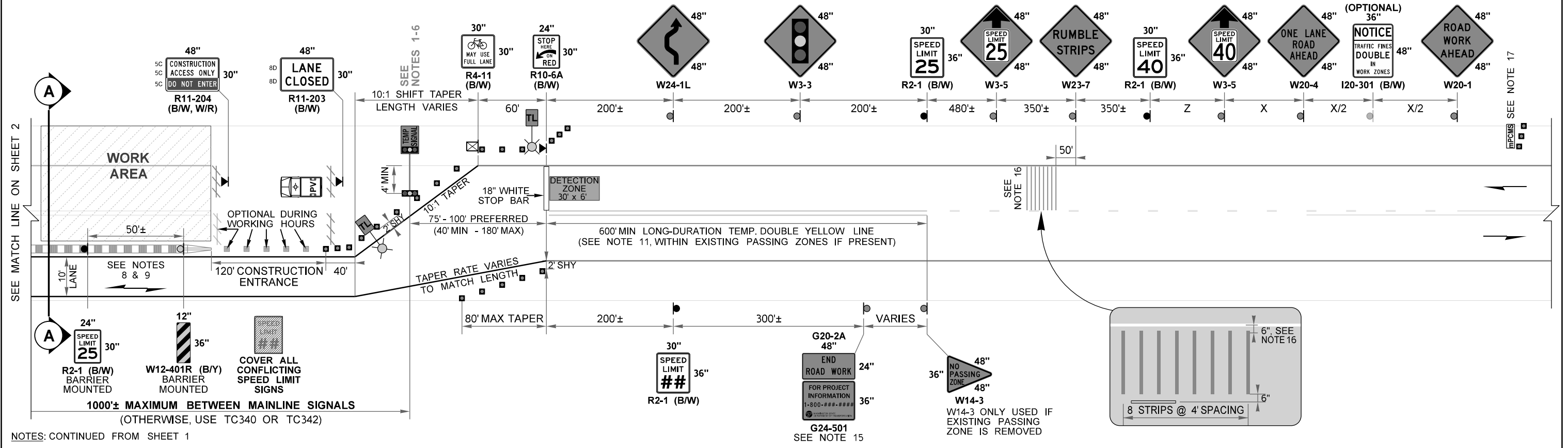
#:## = MINUTES:SECONDS UNTIL GREEN. LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.

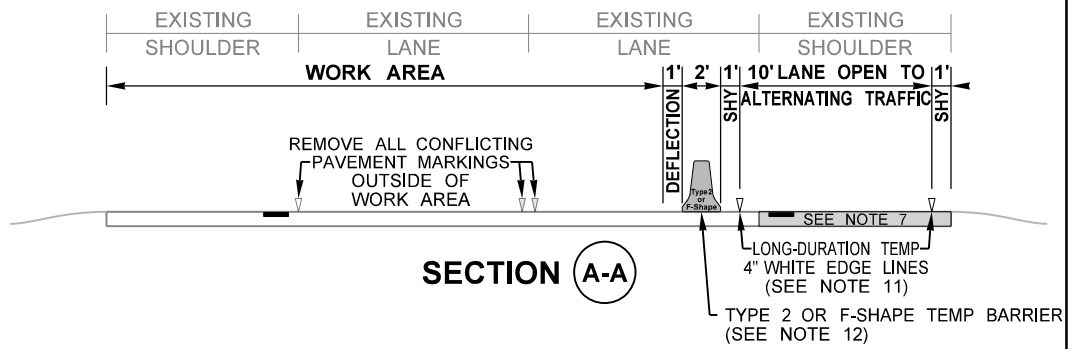
mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC 1.5 SEC	ROADWAY NARROWS 13' WIDE 1.5 SEC



NOTES: CONTINUED FROM SHEET 1

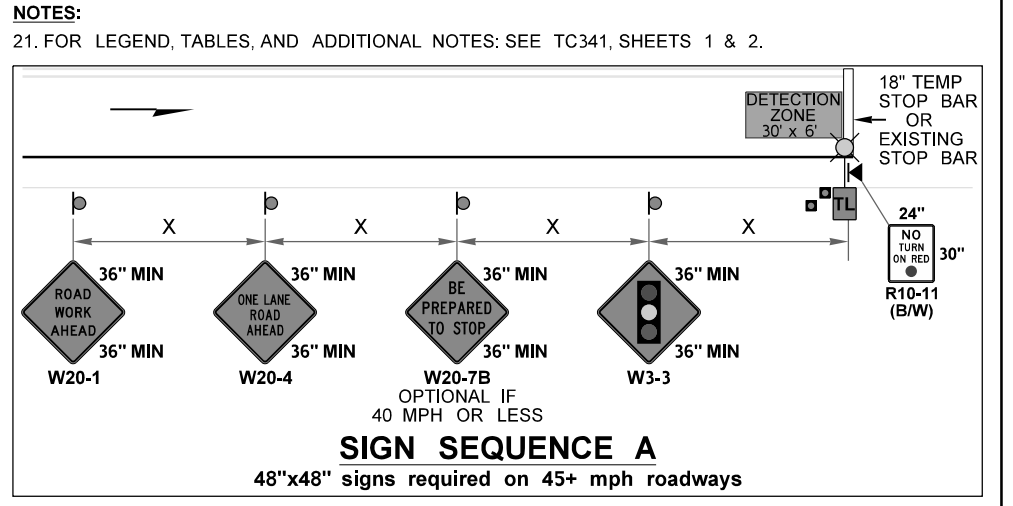
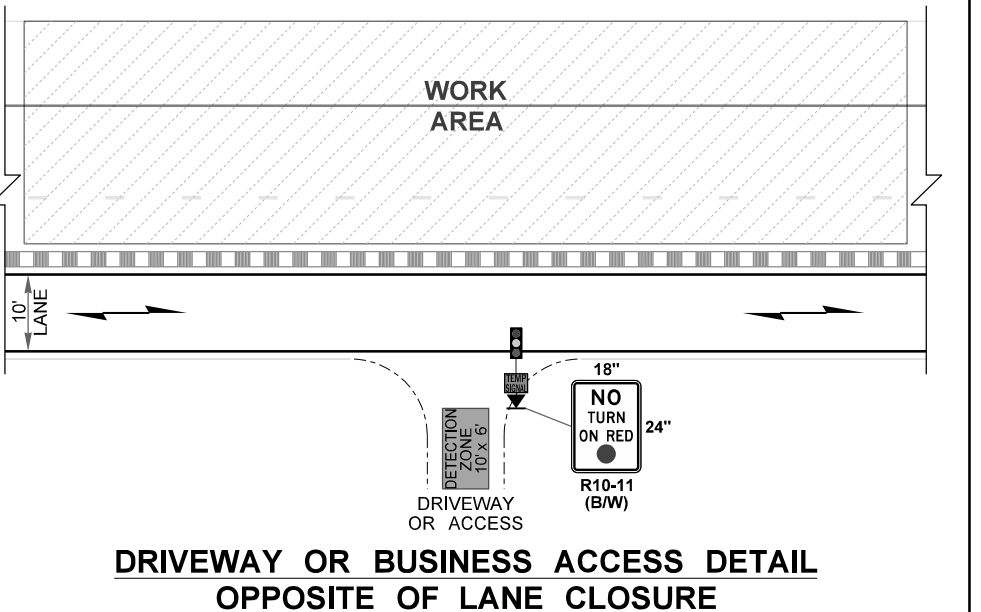
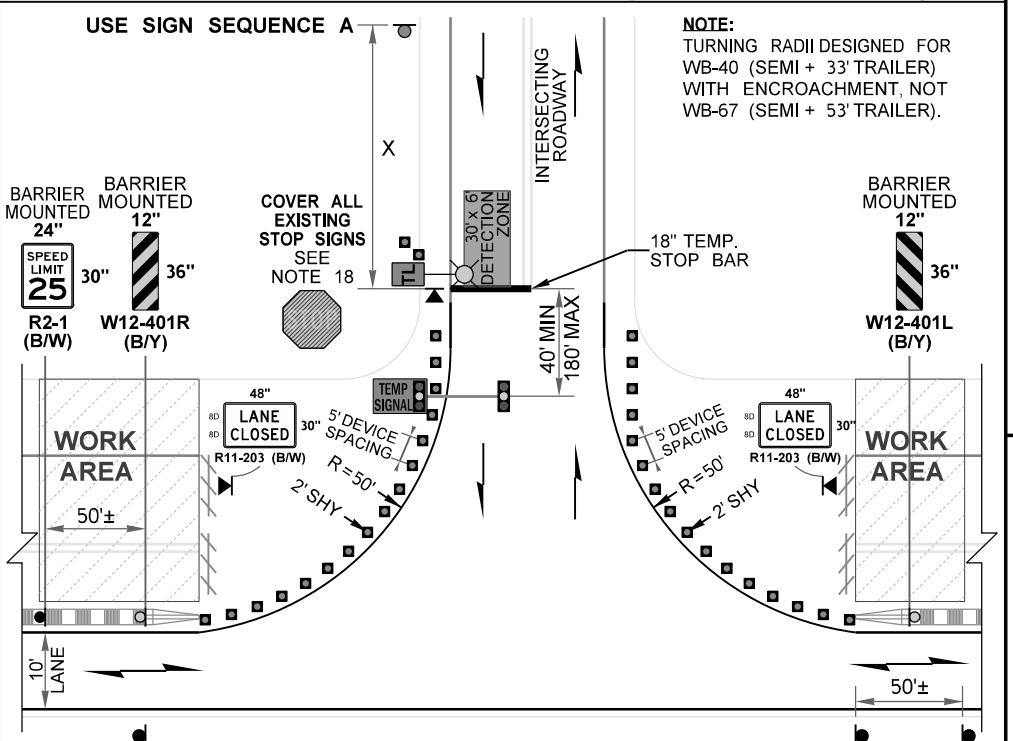
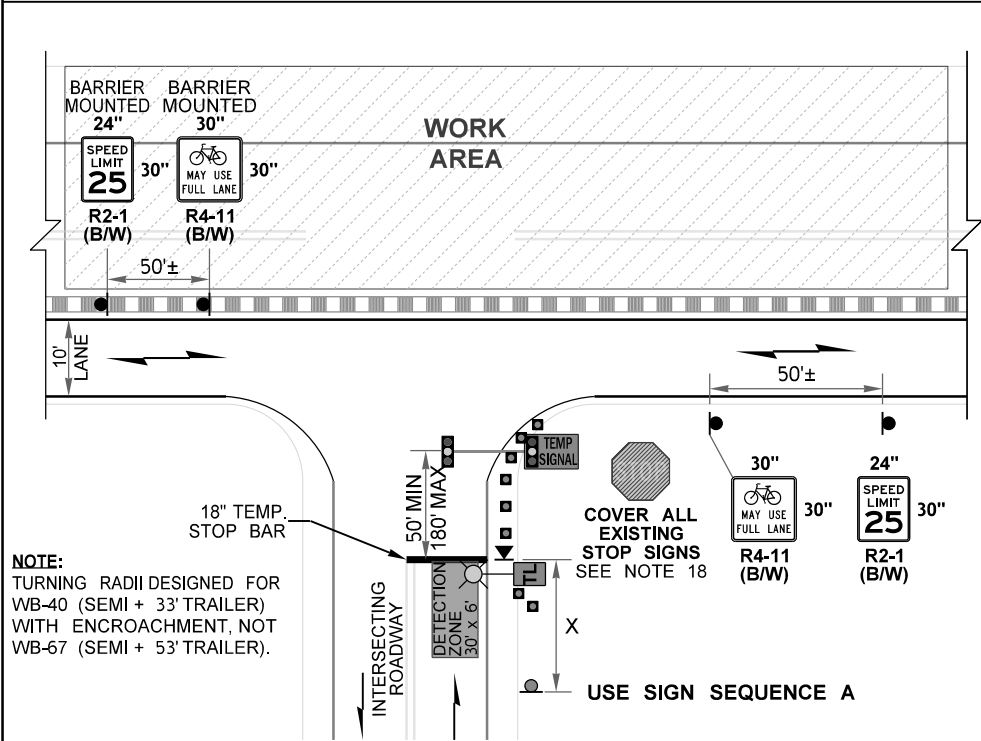
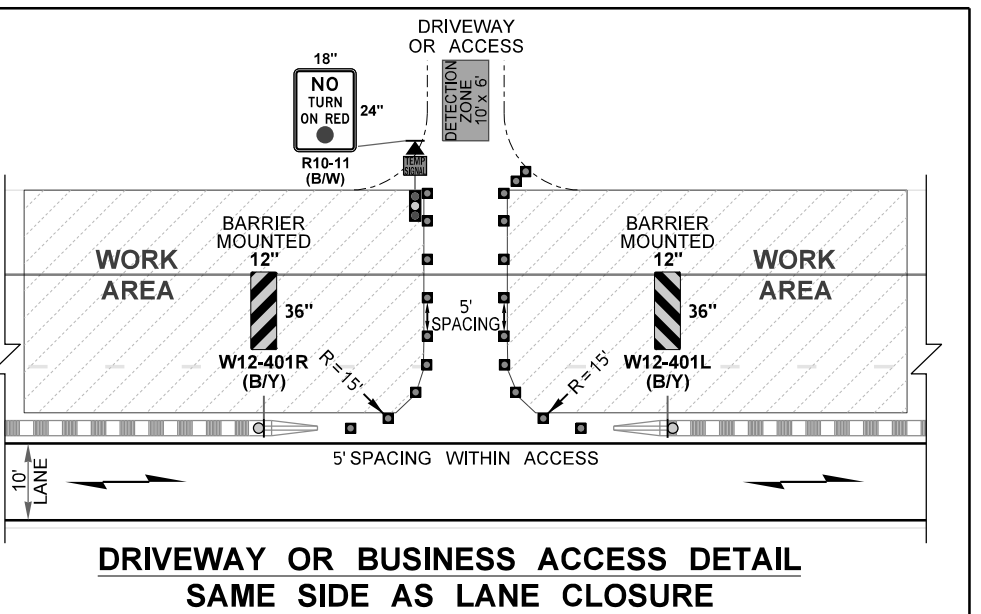
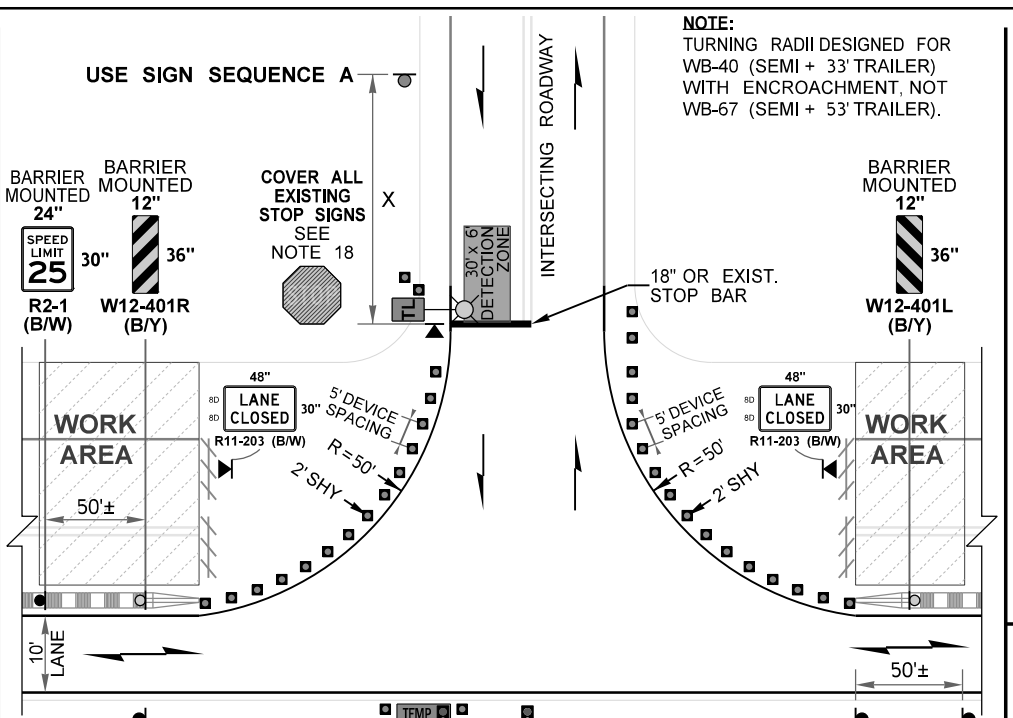
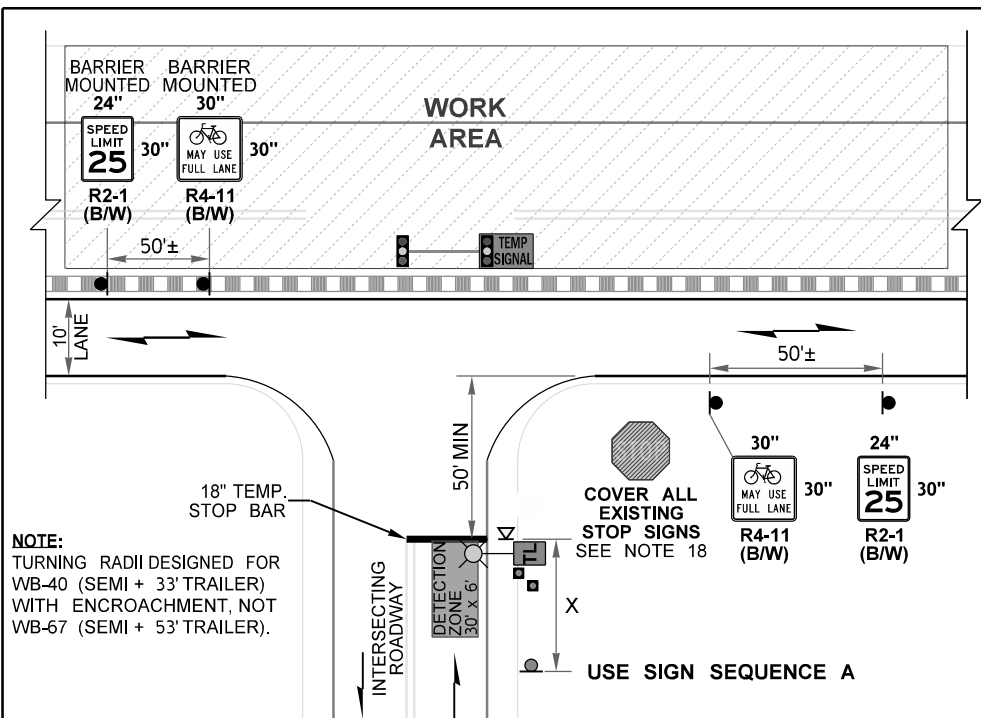
- 8. BICYCLISTS ARE COMBINED WITH VEHICULAR TRAFFIC THROUGH THE LANE CLOSURE.
- 9. ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE OR ANOTHER METHOD THE ENGINEER ACCEPTS.
- 10. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
- 11. EXISTING CENTERLINE PAVEMENT MARKINGS MAY VARY. IF PASSING ZONE PRESENT WITHIN 600' OF TEMPORARY STOP BAR, REMOVE EXISTING CENTERLINE MARKING AND INSTALL LONG-DURATION TEMP. DOUBLE YELLOW LINE (MAY BE SUPPLEMENTED WITH SURFACE-MOUNTED TYPE 2YY RPMs @ 40' SPACING). ALL OTHER CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMP. TAPE (THOSE WITHIN THE WORK AREA MAY REMAIN AS SHOWN).
- 12. TYPE 2 OR F-SHAPE TEMPORARY BARRIER PERMITTED. SLOPED CONCRETE TERMINAL ALLOWED FOR REGULATORY WORK ZONE SPEED LIMITS 25 MPH OR LESS. TYPE 2 TEMPORARY BARRIER AND SLOPED CONCRETE TERMINAL PER STANDARD PLAN K80-32. F-SHAPE TEMPORARY BARRIER PER STANDARD PLAN C-60.10 (C-60.15 IF SCUPPERS USED FOR DRAINAGE) AND STANDARD PLAN C-60.80 FOR F-SHAPE CONCRETE BARRIER TERMINAL.
- 13. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
 - 1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
 - 6-10.3(5) TEMPORARY BARRIER
 - 8-23.3(4)B TEMPORARY PAVEMENT MARKINGS - LONG DURATION
 - 9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL

- 14. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- 15. WSDOT PROJECT ENGINEERING OFFICE WILL PROVIDE PHONE NUMBER.
- 16. SECURE TEMPORARY RUMBLE STRIPS TO PAVEMENT VIA ADHESIVE (DO NOT USE PRIMER). FOR ROADWAYS WITH SHOULDERS LESS THAN 4 FEET, PROVIDE A 4-FOOT CLEAR PATH FOR BICYCLES MEASURED FROM EDGE OF PAVED SHOULDER. AVOID PLACING THEM WITHIN HORIZONTAL CURVES, ADJUST SIGN SPACING IF NEEDED. USE THE FOLLOWING:
 - * Simple Traffic Marking (ATM) Self-Adhesive Rumble Strips (1/4" x 4", Orange)
 - * Stop-Painting (1/4" x 4", Orange)
 - * Seton (1/4" x 4", Orange)
- 17. FULL-SIZE PCMS MAY BE USED IN LIEU OF mPCMS WHERE SPACE ALLOWS.
- 18. REMOVE OR COVER ALL CONFLICTING SIGNAGE PER STD. SPEC. 1-10.3(3)A.
- 19. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- 20. CONTACT WSDOT COMMERCIAL VEHICLE SERVICES AT LEAST 7 DAYS IN ADVANCE OF ROADWAY WIDTH RESTRICTIONS. 30 DAY NOTICE REQUIRED ON MA????????



SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + TEMP BARRIER + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS) NOT TO SCALE

FILE NAME: C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPS\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn		REGION NO. 10		STATE WASH		FED.AID PROJ.NO.				Plot 2	
TIME: 7:18:16 AM	DATE: 4/22/2024	JOB NUMBER		CONTRACT NO.		LOCATION NO.				PLAN REF NO. TC341	
PLOTTED BY: LintzF	DESIGNED BY:	DATE		BY		DATE		DATE		SHEET 2 OF 6 SHEETS	
ENTERED BY:	CHECKED BY:	REVISION		DATE		BY		DATE		TYPICAL TRAFFIC CONTROL PLANS	
PROJ. ENGR.	REGIONAL ADM.	REVISION		DATE		BY		DATE		TYPICAL TRAFFIC CONTROL PLANS	



25 WZSL + TEMP BARRIER + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)
NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn	REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	
TIME	7:18:16 AM	JOB NUMBER		CONTRACT NO.		LOCATION NO.	
DATE	4/22/2024	DATE		DATE		DATE	
PLOTTED BY	LintzF	REVISION		DATE		BY	
DESIGNED BY							
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.							



RECOMMENDED SIGN SPACING = X (1)		
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.

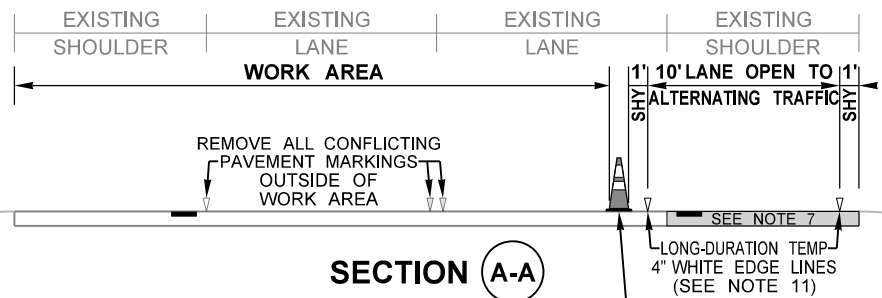
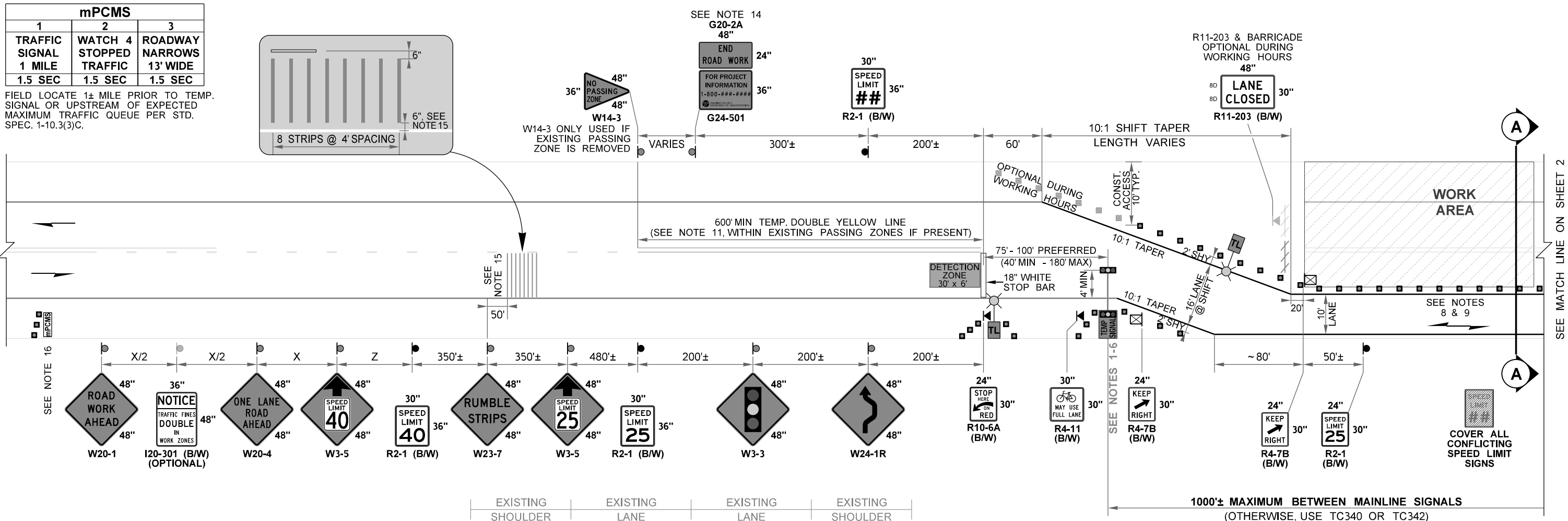
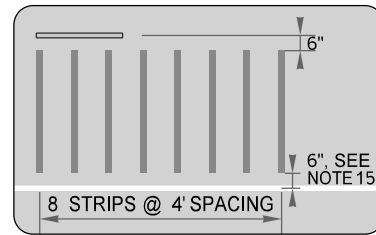
MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 6.

mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC	ROADWAY NARROWS 13' WIDE
1.5 SEC	1.5 SEC	1.5 SEC

FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.



- LEGEND:**
- CLASS A SIGN LOCATION (POST OR BARRIER-MOUNTED)
 - CLASS A TRIPOD-MOUNTED SIGN LOCATION (1' MIN HEIGHT)
 - CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)
 - 28" TRAFFIC CONES (SEE NOTE 10)
 - TYPE 3 BARRICADE
 - PROTECTIVE VEHICLE
 - TEMPORARY TRAFFIC SIGNAL (SEE NOTES 1-6)
 - COMPACT TEMP. TRAFFIC SIGNAL (SEE NOTES 1-6)
 - TEMPORARY LIGHTING (SEE NOTE 6)
 - ADHESIVE TEMPORARY RUMBLE STRIPS (SEE NOTE 15)
 - mini PORTABLE CHANGEABLE MESSAGE SIGN (SEE NOTE 16)

NOTES:

1. ALL TEMPORARY TRAFFIC SIGNAL TIMING PLANS MUST BE APPROVED BY THE ENGINEER. **TWO SEPARATE SIGNAL TIMING PLANS NEEDED:** (1) DEFAULT TIMING PLAN DESIGNED ONLY FOR VEHICLES. (2) MODIFIED SIGNAL TIMING, ACTIVATED BY THE BICYCLE PUSH-BUTTON, THAT EXTENDS THE ALL-RED CLEARANCE INTERVAL **ONCE** TO ALLOW BICYCLES TO CLEAR THE LANE CLOSURE FROM THE STOP BAR AT THE END OF THE YELLOW PHASE. AFTERWARDS, DEFAULT SIGNAL TIMING RESUMES.
2. TEMPORARY SIGNALS ARE FULLY ACTUATED CONTROLLED VIA VIDEO AND/OR RADAR DETECTION. WHEN NO VEHICLES DETECTED IN ANY DIRECTION, ALL TRAFFIC SIGNAL REST IN RED DISPLAY UNTIL THE NEXT VEHICLE IS DETECTED WHICH RECEIVES THE IMMEDIATE GREEN DISPLAY TO MINIMIZE DISPLAYS.

3. TRAFFIC CONTROL MANAGER, TRAFFIC CONTROL SUPERVISOR (PRIMARY AND ALTERNATE), AND WSDOT ENGINEER SHALL BE NOTIFIED VIA EM AIL, TEXT, AND/OR PAGE IF ANY TEMPORARY SIGNAL MALFUNCTIONS.
4. AVOID PLACING TEMPORARY SIGNALS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL & VERTICAL CURVES BY ADJUSTING LONGITUDINAL BUFFER SPACE OR EXTENDING WORK AREA.
5. TEMPORARY TRAFFIC SIGNALS LOCATED WITHIN 1/4 MILE OF A RAILROAD GRADE CROSSING SHALL BE EVALUATED FOR RAILROAD PREEMPTION. CONTACT REGION TRAFFIC OPERATIONS.
6. WHEN PRACTICAL, PROVIDE AT LEAST 4 FEET OF LATERAL CLEARANCE FROM TRAVEL LANE TO TEMPORARY SIGNAL AND TEMPORARY LIGHTING. ACCEPTABLE TO PLACE THESE DEVICES BEHIND EXISTING GUARDRAIL OR BARRIER, BUT VERIFY STRUCTURAL LOADING ON TEMP SIGNAL MAST ARM IS SUFFICIENT. IF A GRAVEL LEVELING PAD IS NEEDED, CONTACT ENGINEER PRIOR TO INSTALLING.
7. EXISTING SHOULDER PAVEMENT MAY NEED TO BE REBUILT TO FULL-DEPTH TO HANDLE TRAFFIC LONG TERM. AT A MINIMUM, REMOVE EXISTING RUMBLE STRIP VIA MILL & HMA FILL. VERIFY EXISTING ITS BOXES AND CATCH BASINS ARE TRAFFIC WORTHY PRIOR TO PLACING TRAFFIC ON SHOULDER LONG-TERM.

NOTES CONTINUED ON SHEET 5.

SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + CHANNELIZING DEVICES + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)

NOT TO SCALE

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn												Plot 4
TIME	7:18:17 AM												PLAN REF NO
DATE	4/22/2024												TC341
PLOTTED BY	LintzF												SHEET
DESIGNED BY													4
ENTERED BY													OF
CHECKED BY													6
PROJ. ENGR.													SHEETS
REGIONAL ADM.													



TYPICAL TRAFFIC CONTROL PLANS

FOR DRIVEWAY, BUSINESS ACCESS, AND INTERSECTING ROADWAY DETAILS SEE TC341, SHEET 6.

WAIT-TIME DISPLAY VMS		
GREEN	YELLOW	RED
25 MPH ZONE	(Blank)	WAIT #:##

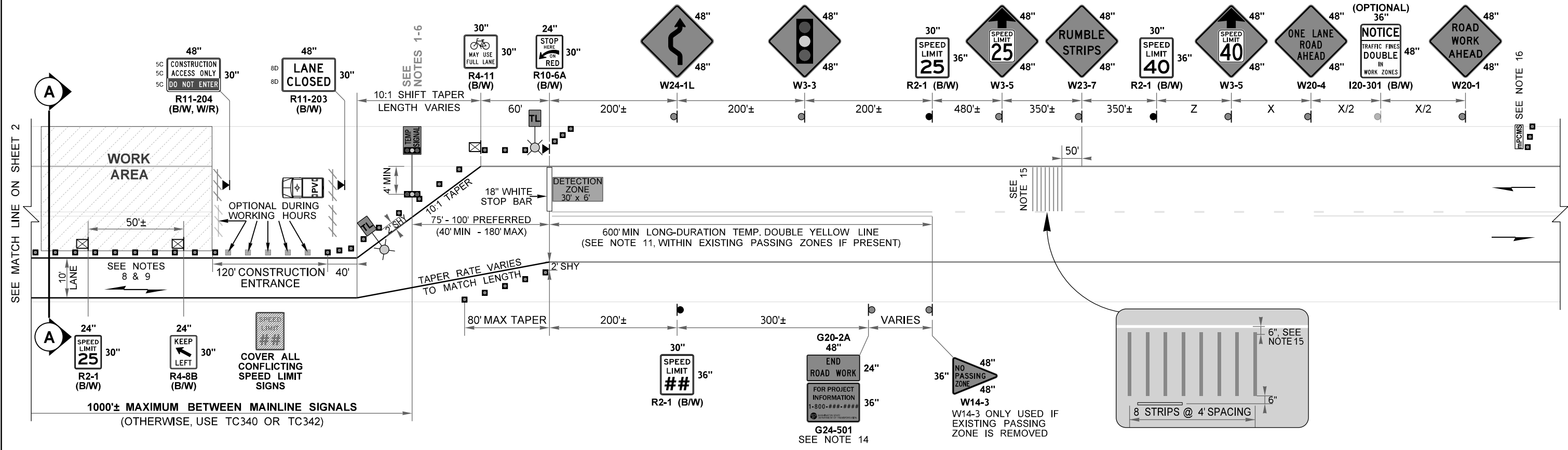
#:## = MINUTES:SECONDS UNTIL GREEN. LOCATE VMS ON TEMP SIGNAL MAST ARM.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
TAPER	TANGENT
10'	20'

SPEED REDUCTION AHEAD SIGN SPACING = Z					
EXISTING SPEED LIMIT (MPH)	45	50	55	60	65
SPACING (feet)	230	470	740	1030	1340

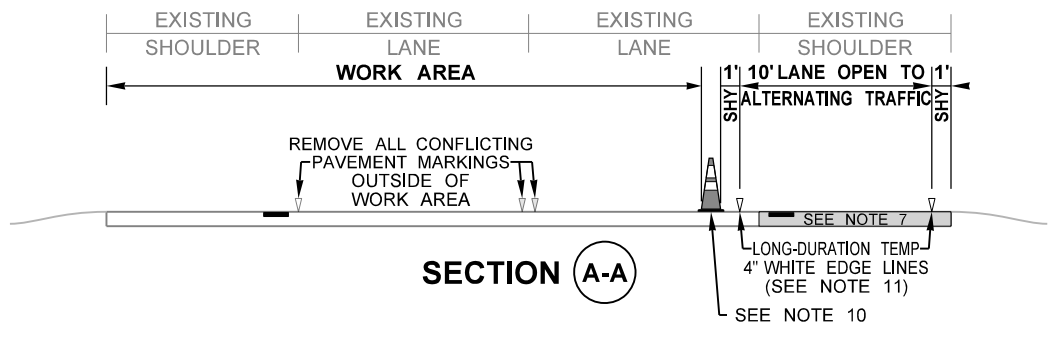
FIELD LOCATE 1± MILE PRIOR TO TEMP. SIGNAL OR UPSTREAM OF EXPECTED MAXIMUM TRAFFIC QUEUE PER STD. SPEC. 1-10.3(3)C.

mPCMS		
1	2	3
TRAFFIC SIGNAL 1 MILE	WATCH 4 STOPPED TRAFFIC 1.5 SEC	ROADWAY NARROWS 13' WIDE 1.5 SEC



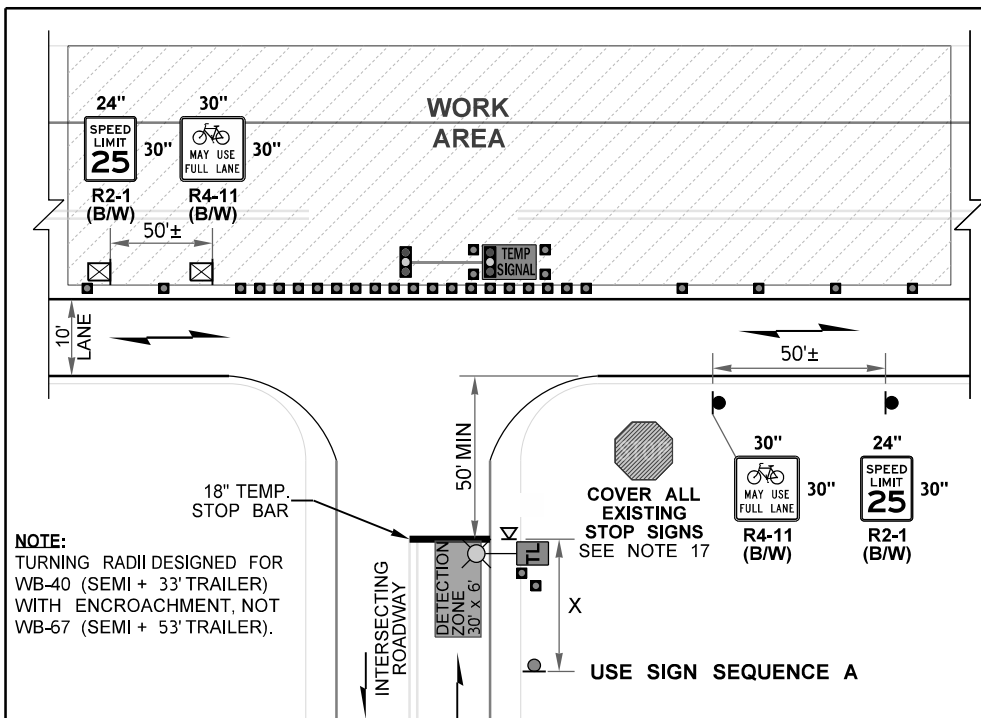
NOTES: CONTINUED FROM SHEET 4

- 8. BICYCLISTS ARE COMBINED WITH VEHICULAR TRAFFIC THROUGH THE LANE CLOSURE.
- 9. ACCOMMODATE PEDESTRIANS VIA SHUTTLE THROUGH LANE CLOSURE OR ANOTHER METHOD THE ENGINEER ACCEPTS.
- 10. 36" TRAFFIC CONES, 42" TALL CHANNELIZATION DEVICES, OR TRAFFIC SAFETY DRUMS OK.
- 11. EXISTING CENTERLINE PAVEMENT MARKINGS MAY VARY. IF PASSING ZONE PRESENT WITHIN 600' OF TEMPORARY STOP BAR, REMOVE EXISTING CENTERLINE MARKING AND INSTALL LONG-DURATION TEMP. DOUBLE YELLOW LINE (MAY BE SUPPLEMENTED WITH SURFACE-MOUNTED TYPE 2YY RPMs @ 40' SPACING). ALL OTHER CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED WITH BLACK TEMP. TAPE (THOSE WITHIN THE WORK AREA MAY REMAIN AS SHOWN).
- 12. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
 - 1-10.3(3)K PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
 - 6-10.3(5) TEMPORARY BARRIER
 - 8-23.3(4)B TEMPORARY PAVEMENT MARKINGS - LONG DURATION
 - 9-35.14 PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
- 13. FOR PROJECT-SPECIFIC REQUIREMENTS, SEE SPECIAL PROVISIONS.
- 14. WSDOT PROJECT ENGINEERING OFFICE WILL PROVIDE PHONE NUMBER.
- 15. SECURE TEMPORARY RUMBLE STRIPS TO PAVEMENT VIA ADHESIVE (DO NOT USE PRIMER). FOR ROADWAYS WITH SHOULDERS LESS THAN 4 FEET, PROVIDE A 4-FOOT CLEAR PATH FOR BICYCLES MEASURED FROM EDGE OF PAVED SHOULDER. AVOID PLACING THEM WITHIN HORIZONTAL CURVES, ADJUST SIGN SPACING IF NEEDED. USE THE FOLLOWING:
 - * Simple Traffic Marking (ATM) Self-Adhesive Rumble Strips (1/4" x 4", Orange)
 - * Stop-Painting (1/4" x 4", Orange)
 - * Seton (1/4" x 4", Orange)
- 16. FULL-SIZE PCMS MAY BE USED IN LIEU OF mPCMS WHERE SPACE ALLOWS.
- 17. REMOVE OR COVER ALL CONFLICTING SIGNAGE PER STD. SPEC. 1-10.3(3)A.
- 18. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
- 19. CONTACT WSDOT COMMERCIAL VEHICLE SERVICES AT LEAST 7 DAYS IN ADVANCE OF ROADWAY WIDTH RESTRICTIONS. 30 DAY NOTICE REQUIRED ON MA???????

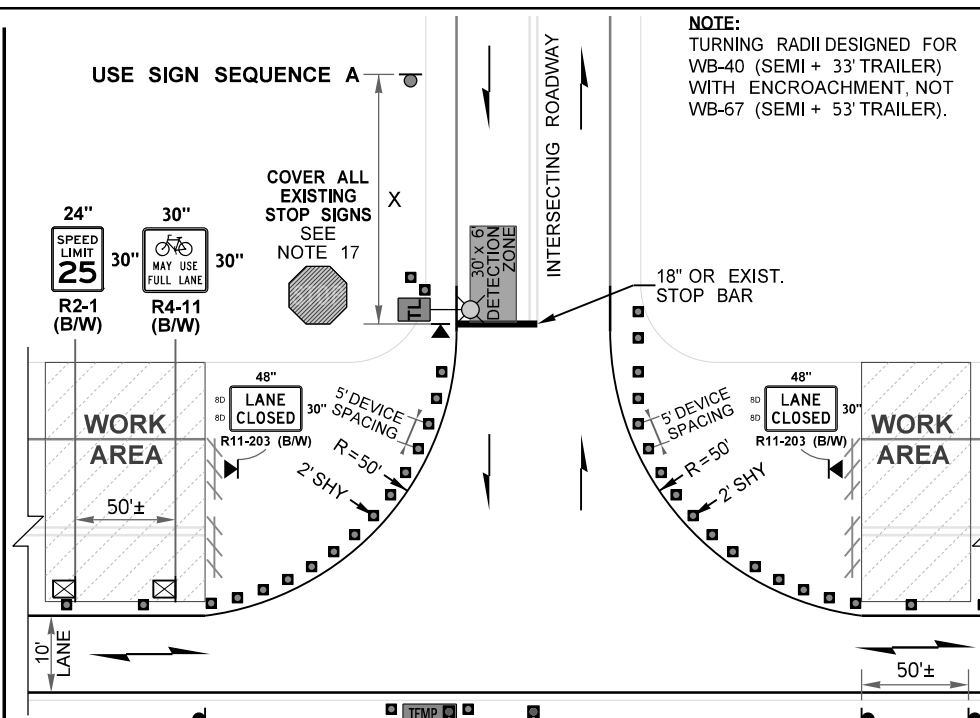


SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC 25 WZSL + CHANNELIZING DEVICES + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS) NOT TO SCALE

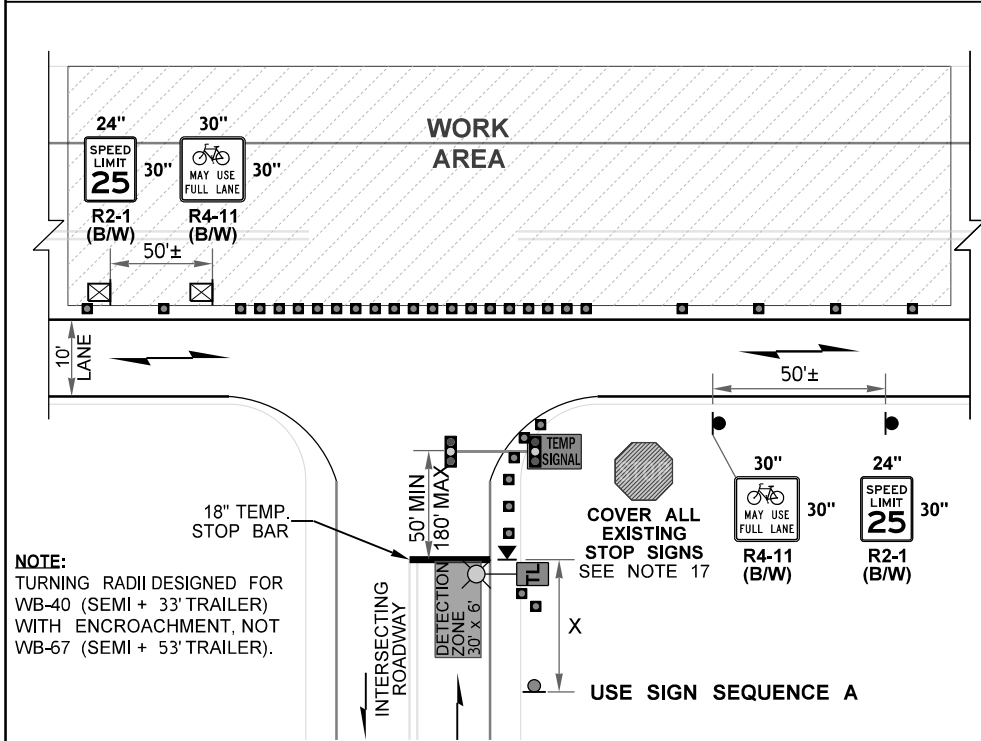
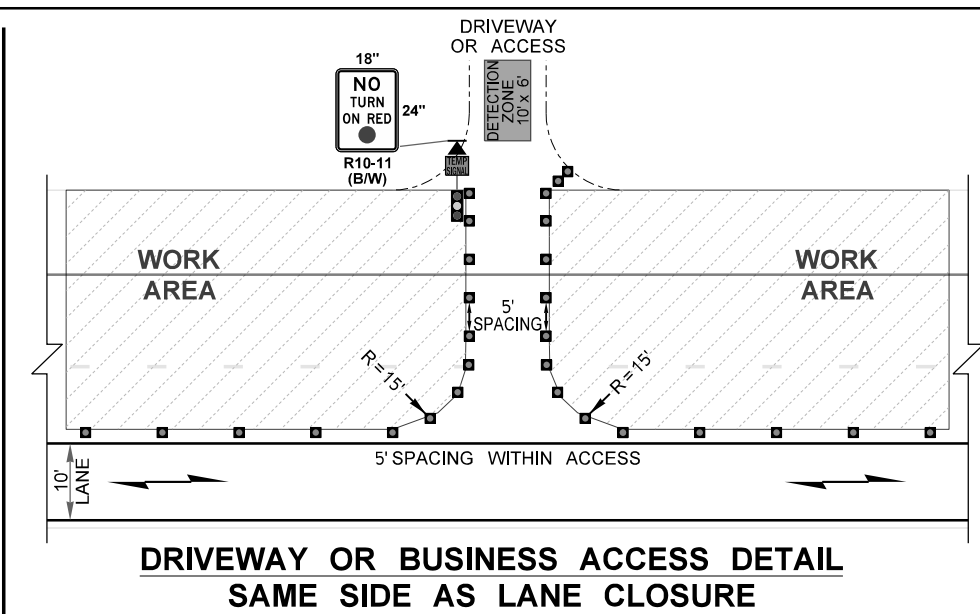
FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPS\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn							Plot 5
TIME	7:18:18 AM				FED.AID PROJ.NO.	10	WASH	PLAN REF NO
DATE	4/22/2024							TC341
PLOTTED BY	LintzF				Washington State Department of Transportation	REVISION	DATE	SHEET
DESIGNED BY								5
ENTERED BY					TYPICAL TRAFFIC CONTROL PLANS	BY	DATE	OF
CHECKED BY								6
PROJ. ENGR.					P.E. STAMP BOX	DATE	DATE	SHEETS
REGIONAL ADM.								6



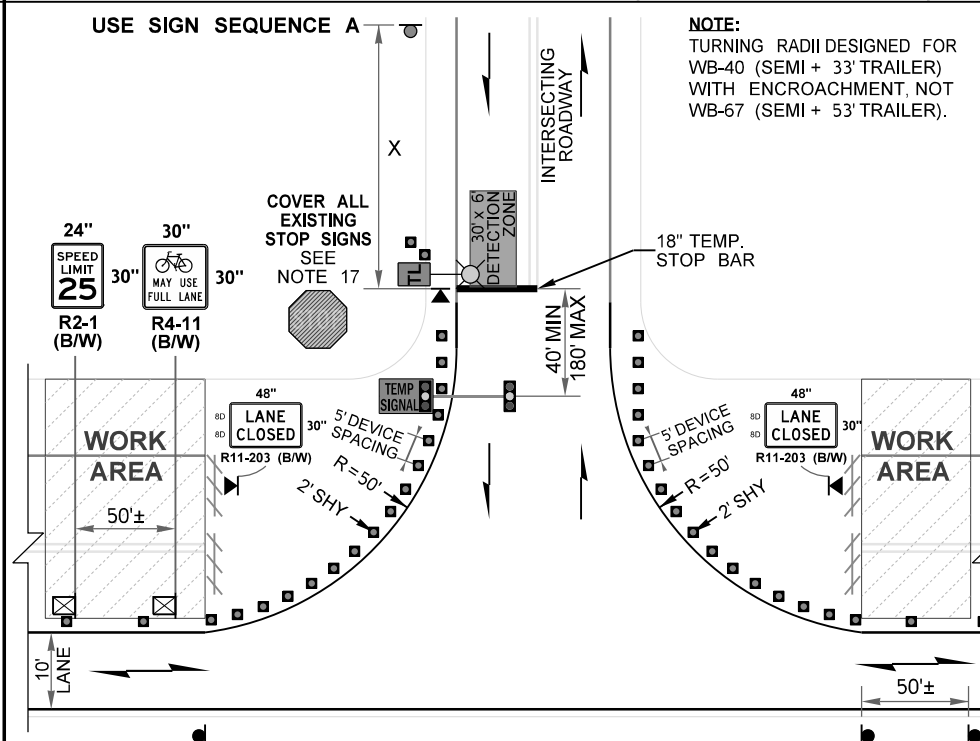
**UNSIGNALIZED INTERSECTING ROADWAY DETAIL
OPPOSITE OF LANE CLOSURE (SIGNAL FAR-SIDE)**



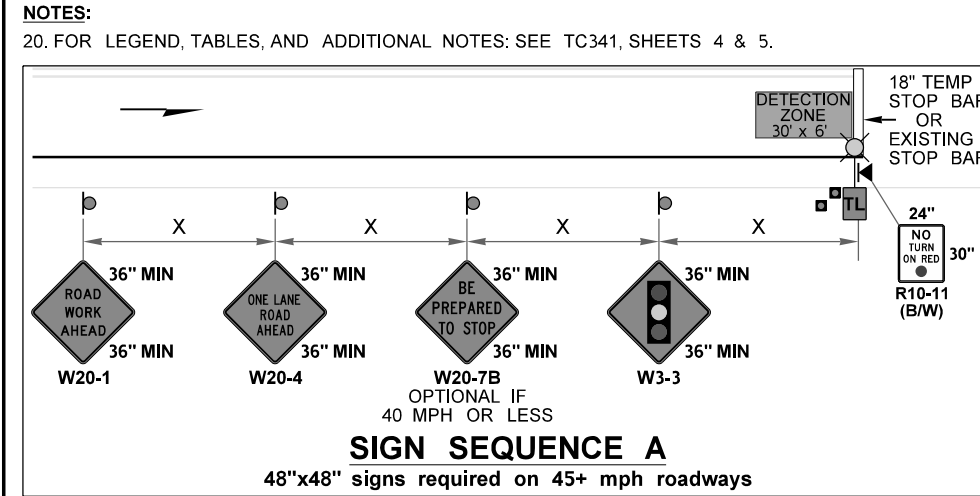
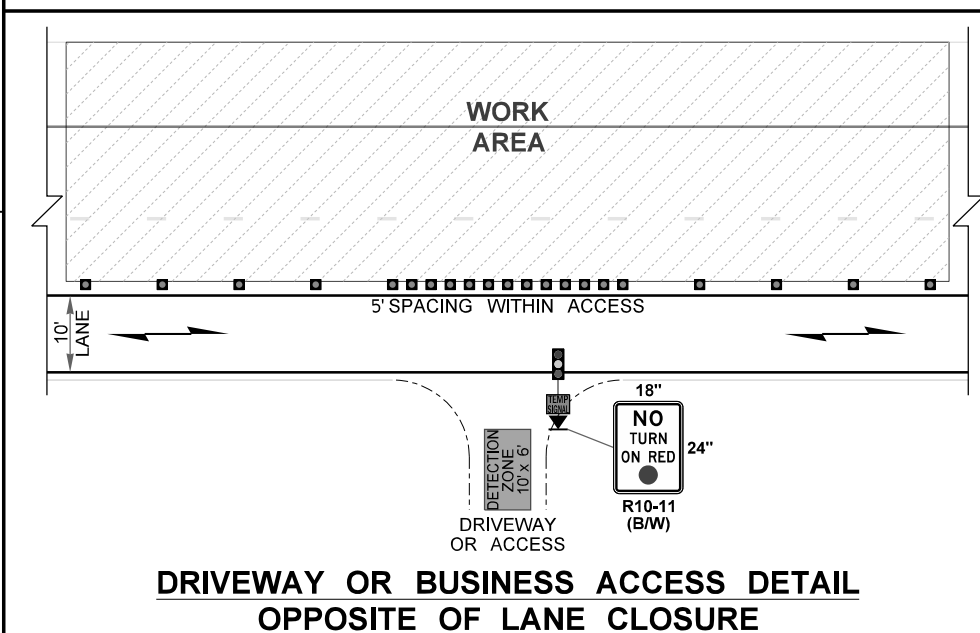
**UNSIGNALIZED INTERSECTING ROADWAY DETAIL
SAME SIDE AS LANE CLOSURE (SIGNAL FAR-SIDE)**



**UNSIGNALIZED INTERSECTING ROADWAY DETAIL
OPPOSITE OF LANE CLOSURE (SIGNAL NEAR-SIDE)**



**UNSIGNALIZED INTERSECTING ROADWAY DETAIL
SAME SIDE AS LANE CLOSURE (SIGNAL NEAR-SIDE)**



**SIMPLE TEMPORARY SIGNAL-CONTROLLED ALTERNATING 1-LANE, 2-WAY TRAFFIC
25 WZSL + CHANNELIZING DEVICES + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)
NOT TO SCALE**

FILE NAME	C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\341Hwy45+AltTrafficSimpleTempSignalRS25WZSL\SharedLn.dgn	REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	
TIME	7:18:18 AM	JOB NUMBER		CONTRACT NO.		LOCATION NO.	
DATE	4/22/2024	DATE		BY			
PLOTTED BY	LintzF	REVISION		DATE		BY	
DESIGNED BY							
ENTERED BY							
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.							



Plot 6
PLAN REF NO
TC341
SHEET
6
OF
6
SHEETS
TYPICAL TRAFFIC CONTROL PLANS

WORK ZONE MICROSTATION CELLS: Updated work zone cells incorporated (April 2024).

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 e-mail HQCAEHlpDesk@wsdot.wa.gov.

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>

TYPICAL TCP USAGE EXPLANATION:

Plots 1-3: Simple temporary signal-controlled 1-lane, 2-way alternating traffic on 45+ mph, 2-lane highways with temporary barrier separating work area for long-duration closures (8+ days). Details for driveway, business access, and/or intersecting roadways included in Plot 3.

Plots 4-6: Simple temporary signal-controlled 1-lane, 2-way alternating traffic on 45+ mph, 2-lane highways with channelizing devices separating work area for long-duration closures (8+ days). Details for driveway, business access, and/or intersecting roadways included in Plot 6.

Plots 11-14: Version for 45 mph highways of Sheet 1 & 2 (temporary barrier) and Sheet 4 & 5 (channelizing device). Plot 3 and 6 still used but change title to "(45 MPH HIGHWAYS, 8+ DAYS)". See Microstation file in .ZIP file.

Plots 16-19: Version for 50 mph highways of Sheet 1 & 2 (temporary barrier) and Sheet 4 & 5 (channelizing device). Plot 3 and 6 still used but change title to "(50 MPH HIGHWAYS, 8+ DAYS)". See Microstation file in .ZIP file.

Plots 21-24: Version for 55 mph highways of Sheet 1 & 2 (temporary barrier) and Sheet 4 & 5 (channelizing device). Plot 3 and 6 still used but change title to "(55 MPH HIGHWAYS, 8+ DAYS)". See Microstation file in .ZIP file.

Plots 26-29: Version for 60 mph highways of Sheet 1 & 2 (temporary barrier) and Sheet 4 & 5 (channelizing device). Plot 3 and 6 still used but change title to "(60 MPH HIGHWAYS, 8+ DAYS)". See Microstation file in .ZIP file.

Plots 31-34: Version for 65 mph (trucks 60 mph) highways of Sheet 1 & 2 (temporary barrier) and Sheet 4 & 5 (channelizing device). Plot 3 and 6 still used but change title to "(65 MPH HIGHWAYS, 8+ DAYS)". See Microstation file in .ZIP file.

Other Alternating Traffic TCPs (45+ mph): See Typical Traffic Control Plan Library (<https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/plan-sheet-library/work-zone-typical-traffic-control-plans-tcp>)
* TC320s for flagger-controlled alternating traffic plans
* TC330s for other variations of AFAD-controlled alternating traffic plans
* TC340s for temporary signal-controlled alternating traffic plans, including a 35 mph regulatory speed limit version.
* TC350s for traffic holds
If not published yet, they will be added in the future.

Other Alternating Traffic TCPs (40 mph or less): See Typical Traffic Control Plan Library (<https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/plan-sheet-library/work-zone-typical-traffic-control-plans-tcp>)
* TC420s for flagger-controlled alternating traffic
* TC430s for AFAD-controlled alternating traffic
* TC440s for temporary signal-controlled alternating traffic plans
* TC450s for traffic holds
If not published yet, they will be added in the future.

DESIGNER NOTES:

A. Temporary Traffic Signals located within 1/4 mile of a railroad grade crossing shall be evaluated for railroad preemption per WSDOT Manual 1330.04(7)(b). Note, this process tends to take up to 6 months due to collaboration with railroads.

B. Contact Region Traffic Operations to determine which Typical TCP(S) to utilize, as there are several variations available (or soon will be).

C. These typical traffic control plans may be modified for site specific situations and/or WSDOT Region Traffic Operations standard practices. **Typical TCPs are not "Standard Plans".**

D. Per WSDOT Executive Order E1060 (<https://www.wsdot.wa.gov/publications/policies/fulltext/1060.pdf>); speed limit reductions and advisory speeds must be approved for work zones. Submit speed reduction reductions & advisory speed requests for work zones through WSDOT Region Transportation Operations. See Traffic Manual Section 5-18 for additional information for documentation and notification requirements.

E. See MUTCD Table 6F-1 for additional temporary sign size information. Work zone signs are usually smaller than those used permanently.

DESIGNER NOTES: (continued)

F. WAC 468-95-300 modifies MUTCD Table 6-1 "Recommended Advance Warning Sign Minimum Spacing". Sign spacing may be adjusted for field conditions based on engineering judgement. The Sign Spacing table is acceptable to use in Typical TCPs; however, site-specific traffic control plans should include actual sign spacing values (withA) that have been verified in the field, on SR view, or via Google Maps.

G. The temporary sign spacing between W3-5 (speed reduction ahead) and R2-1 (speed limit) signage is based on Exhibit 2-8 in Chapter 2 of the WSDOT Traffic Manual (<https://www.wsdot.wa.gov/publications/manuals/fulltext/m51-02/chapter2.pdf>).

H. For 8+ day traffic control plans, Class A construction signs will be used and are typically mounted per Standard Plan K-80.10; however, tripod-mounted (1-foot, 5-foot when behind channelizing devices) and barrier-mounted signs are also used in these plans. For 7 day or less plans, Class B construction signs are used and consist of tripod-mounted (1-foot, 5-foot when behind channelizing devices) and barrier-mounted signs.

I. For this Typical TCP, the work zone design speed is based on the 25 mph continuous regulatory speed limit for sign spacing, channelizing device spacing, buffer, roll ahead distances, and use of concrete barrier terminals. If 30 mph or higher speed limits are used, temporary impact attenuators shall be used. If the 8+ day bypass needs to be designed at a lower speed (15 mph or 20 mph), then add a W13-1P advisory speed plaque below the W24-1 series signs based on the design speed in addition to using the 25 mph regulatory speed limit.

J. Lane closure tapers for temporary signal alternating traffic is typically 50'-100' per closed lane with 6 devices minimum (10'-20' spacing on the taper) regardless of the posted speed limit or lane width per MUTCD 6C.08, Paragraph 15. Never use "L" for these tapers. This Typical TCP 10:1 tapers (but this can be reduced to 5:1 tapers in restricted areas) in lieu of actual taper distances to account for the additional lane shift behind centerline due to varying shoulder widths (10' shoulders shown in Typical TCP) which impacts the taper length. Site-specific traffic control plans may use this Typical TCP as reference and modify it from stopbar to stopbar using curvilinear alignment.

K. Channelization devices types may be modified (vertical panel channelizing devices prohibited). Warning lights on channelizing devices is being phased out in Washington. Contact Region Traffic Operations for information regarding their standard practices.

L. Maximum channelizing device spacing table for tangents is reduced to 20' spacing to enhance delineation through the lane closure, even though 40' allowed in WAC 468-95-301 for 25 mph. Channelization spacing may ALWAYS be reduced. To allow construction access into the work area, truck & trailers need about 120' gap in devices to maneuver--so these devices are optional during working hours to allow that movement.

M. Per MUTCD Section 6C.06, longitudinal buffer spaces are optional. This Typical TCP uses a 40' tangent & 120' construction access as the 160' longitudinal buffer (155' buffer for 25 mph). A protective vehicle has been added in the closed lane behind the first set of Type 3 barricades with just a 40' buffer to keep the distance between signals minimized (which maximizes traffic capacity).

N. The lateral buffer (transverse distance between open travel lanes and work area) is optional. No lateral buffer has been provided in these Typical TCPs due to the low speeds of alternating traffic when channelizing devices used but a 1' lateral deflection distance used for temporary barrier (for their deflection space) due to 25 mph speeds versus the typical 3 feet. Actual work area limits may be modified.

O. See Design Manual Chapter 1610 for temporary barrier design & sloped concrete barrier terminal (allowed 25 mph or less). See Design Manual Chapter 1620 for temporary impact attenuators (required 30+ mph, approved Temporary Impact Attenuator list required to be provided on TCPs).

P. Placing Type 3 barricades or channelizing devices transversely (at 0° and 3-foot spacing) is an optional strategy to stop move errant drivers traveling within the closed lane(s). This Typical TCP uses several Type 3 barricades strategically placed.

Q. In lieu of portable trailer-mounted traffic signals, WSDOT HQ has a timber-pole mounted traffic signal variation that is more economical if traffic signals remain in place for 4 months or longer. For additional information, contact HQworkzone@wsdot.wa.gov.

R. When utilizing temporary transverse rumble strips in Contracts, include the following Section 1-10 General Special Provisions for Specification, Measurement, and Payment. <https://wsdot.wa.gov/publications/fulltext/projectdev/gspspdf/egsp8.pdf>
* 8-23.2(9-34).OPT1.GR8 (Temporary Adhesive Transverse Rumble Strip Materials GSP)
* 8-23.3(4)A.OPT1.GR8 (Temporary Adhesive Transverse Rumble Strip Specifications GSP)
* 8-23.4.OPT1.GR8 (Temporary Adhesive Transverse Rumble Strip Measurement GSP)
* 8-23.5.OPT1.GR8 (Temporary Adhesive Transverse Rumble Strip Payment GSP)

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25 WZSL + RUMBLE STRIPS (45+ MPH HIGHWAYS, 8+ DAYS)**

INFORMATIONAL USE ONLY

**DO NOT INCLUDE THIS SHEET IN
CONTRACT PS&Es or TCP SUBMITTALS.**

DESIGNER GUIDANCE

TC341