

Port of Tacoma Lower Wapato Creek Habitat Project
Contract No. 071447
KLB Job No. 221102

Submittal No:

Bid Item No:

To: Dave Myers
Project Manager
Port of Tacoma
One Sitcum Plaza
Tacoma, WA 98421

Submittal Type:

Material Approval

Work Plan

Shop Drawing

Cost Proposal

Serial Letter

Other

From: KLB Construction, Inc.
PO Box 158
Mukilteo, WA 98275

Re:

Specification Reference:

Drawing Reference:

Additional Information:

Signature & Date:

SIGN SPACING = X		
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.

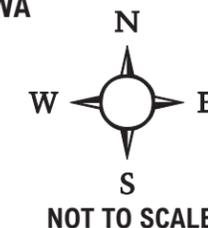
ONE LANE, TWO-WAY TRAFFIC TAPER SPECS		
TAPER TYPE	LENGTH (feet)	# OF DEVICES
UPSTREAM TAPER	50' TO 100'	6 DEVICE MIN.
DOWNSTREAM TAPER	50' TO 100'	6 DEVICE MIN.

TABLE (1) CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

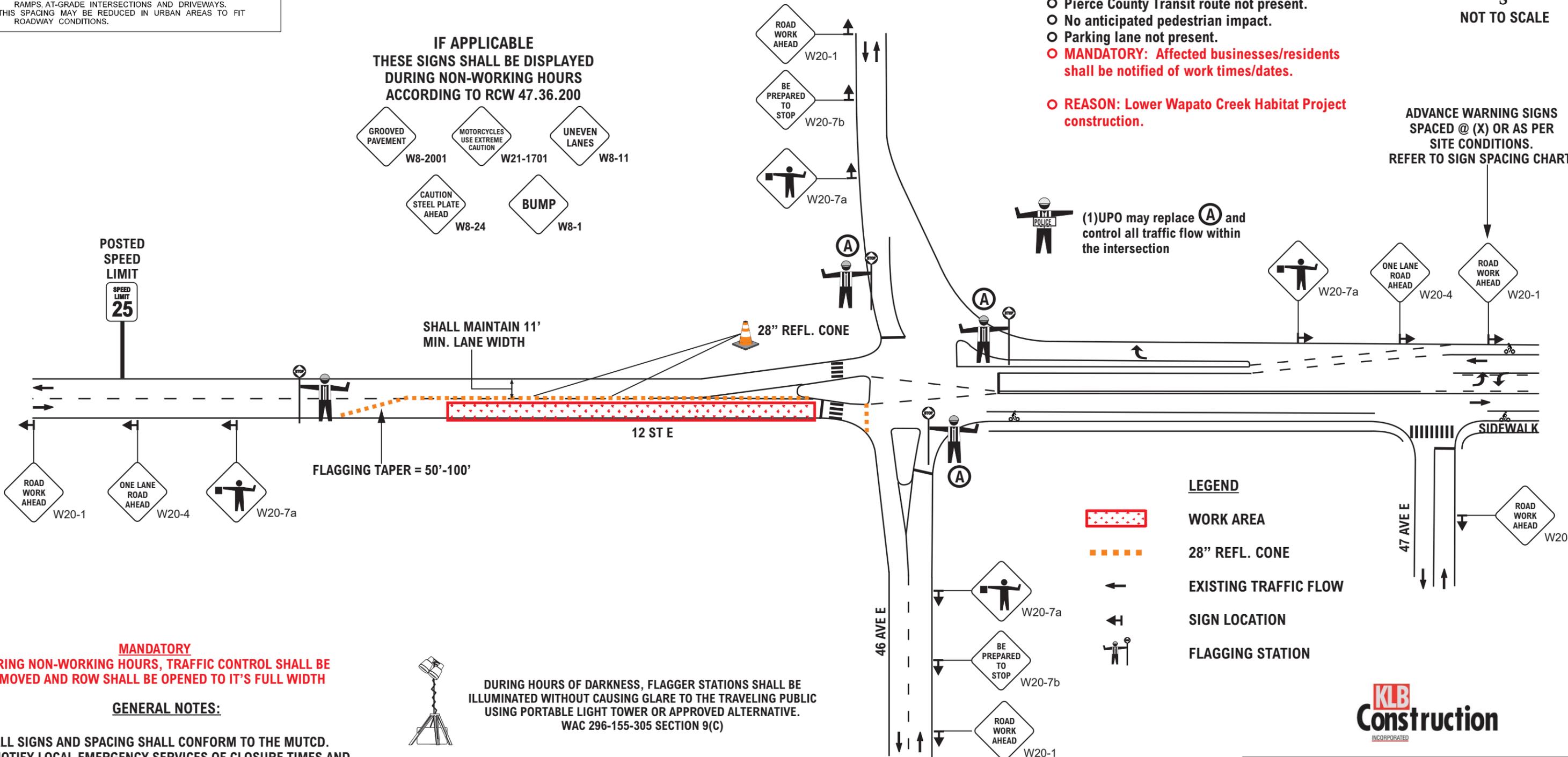
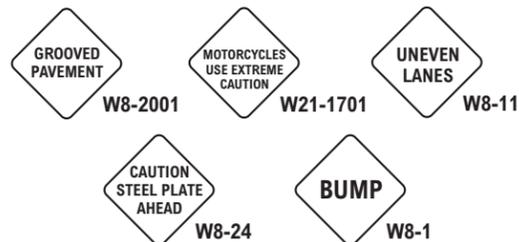
Typical One-Lane, Two-Way Operation

- E/B 12th St E closed east of Alexander Ave E.
- Detour route provided.
- FLAGGER shall hold W/B traffic, as needed, to allow affected residents to safely exit driveways.
- Pierce County Transit route not present.
- No anticipated pedestrian impact.
- Parking lane not present.
- **MANDATORY: Affected businesses/residents shall be notified of work times/dates.**
- **REASON: Lower Wapato Creek Habitat Project construction.**

TRAFFIC CONTROL PLAN FIFE, WA



IF APPLICABLE
 THESE SIGNS SHALL BE DISPLAYED
 DURING NON-WORKING HOURS
 ACCORDING TO RCW 47.36.200



ADVANCE WARNING SIGNS
 SPACED @ (X) OR AS PER
 SITE CONDITIONS.
 REFER TO SIGN SPACING CHART.

(1)UPO may replace (A) and control all traffic flow within the intersection

LEGEND

- WORK AREA
- 28" REFL. CONE
- EXISTING TRAFFIC FLOW
- SIGN LOCATION
- FLAGGING STATION

MANDATORY
 DURING NON-WORKING HOURS, TRAFFIC CONTROL SHALL BE REMOVED AND ROW SHALL BE OPENED TO IT'S FULL WIDTH

GENERAL NOTES:

1. ALL SIGNS AND SPACING SHALL CONFORM TO THE MUTCD.
2. NOTIFY LOCAL EMERGENCY SERVICES OF CLOSURE TIMES AND DATES (OPTIONAL).
3. SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROAD CONDITIONS.
4. PROTECTIVE VEHICLE RECOMMENDED-MAY BE A WORK TRUCK.
5. ALL SIGNS MIN. 48" x 48" UNLESS OTHERWISE SPECIFIED.
6. CHANNELIZATION DEVICES ARE 28" REFL. CONES (see TABLE (1) for spacing distances).
7. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND/OR DRIVEWAYS.

DURING HOURS OF DARKNESS, FLAGGER STATIONS SHALL BE ILLUMINATED WITHOUT CAUSING GLARE TO THE TRAVELING PUBLIC USING PORTABLE LIGHT TOWER OR APPROVED ALTERNATIVE.
 WAC 296-155-305 SECTION 9(C)



CONTRACTOR		KLB Construction Inc	
SUPERVISOR		Will Case	
PHONE NUMBER (office)		509-306-9506	
PHONE NUMBER (fax)		509-306-9506	
SHEET NUMBER		KLB.01	
DATE		7/9/21	
PREPARED BY		David Barnes	
PHONE#		253-331-8248	
E-MAIL		david@trafficcontrolplan.net	



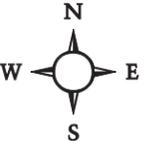
SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
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ONE LANE, TWO-WAY TRAFFIC TAPER SPECS		
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**TRAFFIC CONTROL PLAN
FIFE, WA**

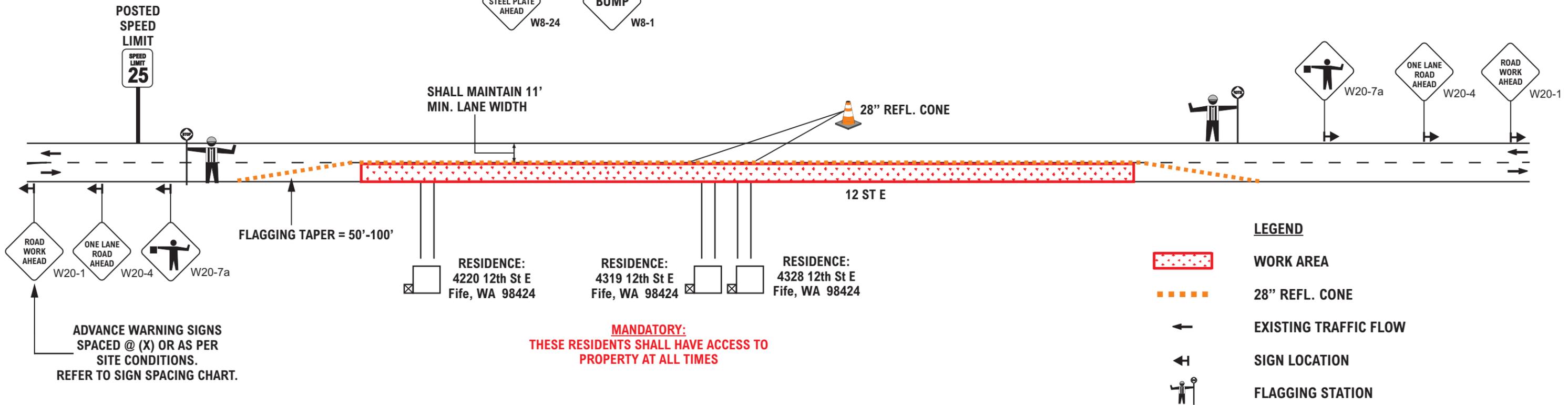
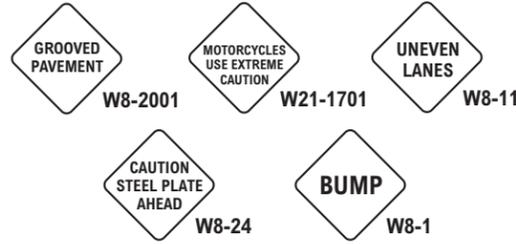


NOT TO SCALE

Typical One-Lane, Two-Way Operation

- E/B 12th St E closed east of Alexander Ave E.
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- Pierce County Transit route not present.
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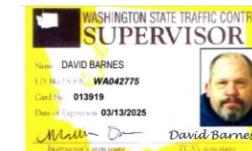
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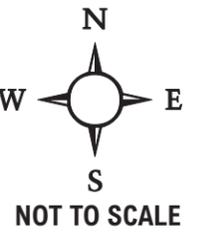
DURING HOURS OF DARKNESS, FLAGGER STATIONS SHALL BE ILLUMINATED WITHOUT CAUSING GLARE TO THE TRAVELING PUBLIC USING PORTABLE LIGHT TOWER OR APPROVED ALTERNATIVE.
WAC 296-155-305 SECTION 9(C)

**MANDATORY
DURING NON-WORKING HOURS, TRAFFIC CONTROL SHALL BE
REMOVED AND ROW SHALL BE OPENED TO IT'S FULL WIDTH**



CONTRACTOR		KLB Construction Inc	
SUPERVISOR		WO #	
Will Case			
PHONE NUMBER (office)	PROJECT LOCATION		
509-306-9506	Fife, WA		
PHONE NUMBER (fax)	SHEET NUMBER	DATE	
	KLB.02	7/9/21	
PREPARED BY	PHONE#		
David Barnes	253-331-8248		
E-MAIL			
david@trafficcontrolplan.net			





SIGN SPACING = X		
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LANE WIDTH (feet)	MINIMUM LANE CLOSURE 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	-	-
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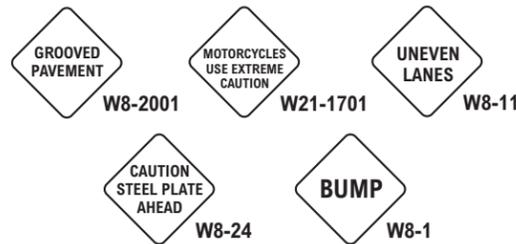
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LEGEND

- WORK AREA
- 28" REFL. CONE
- EXISTING TRAFFIC FLOW
- SIGN LOCATION
- FLAGGING STATION
- SEQUENTIAL ARROWBOARD

**IF APPLICABLE
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**REFER TO SHEET KLB.08 DETOUR A
FOR DETOUR DETAILS**



SHALL MAINTAIN 11'
MIN. LANE WIDTH



12 ST E

RESIDENCE:
4220 12th St E
Fife, WA 98424

RESIDENCE:
4319 12th St E
Fife, WA 98424

RESIDENCE:
4328 12th St E
Fife, WA 98424

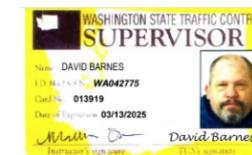
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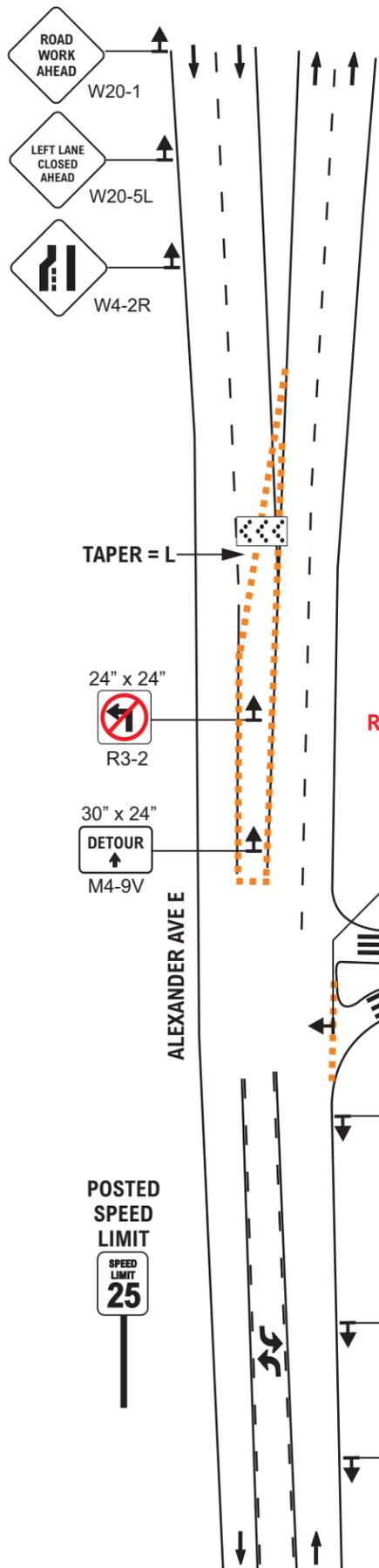
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WAC 296-155-305 SECTION 9(C)

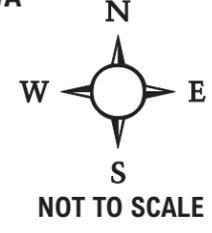


ADVANCE WARNING SIGNS
SPACED @ (X) OR AS PER
SITE CONDITIONS.
REFER TO SIGN SPACING CHART.



CONTRACTOR		KLB Construction Inc	
SUPERVISOR		Will Case	
PHONE NUMBER (office)		509-306-9506	
PHONE NUMBER (fax)		SHEET NUMBER	
		KLB.03	
PREPARED BY		PHONE#	
David Barnes		253-331-8248	
E-MAIL		DATE	
david@trafficcontrolplan.net		7/9/21	





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	-	-	-
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SIGN SPACING = X		
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TABLE (1)

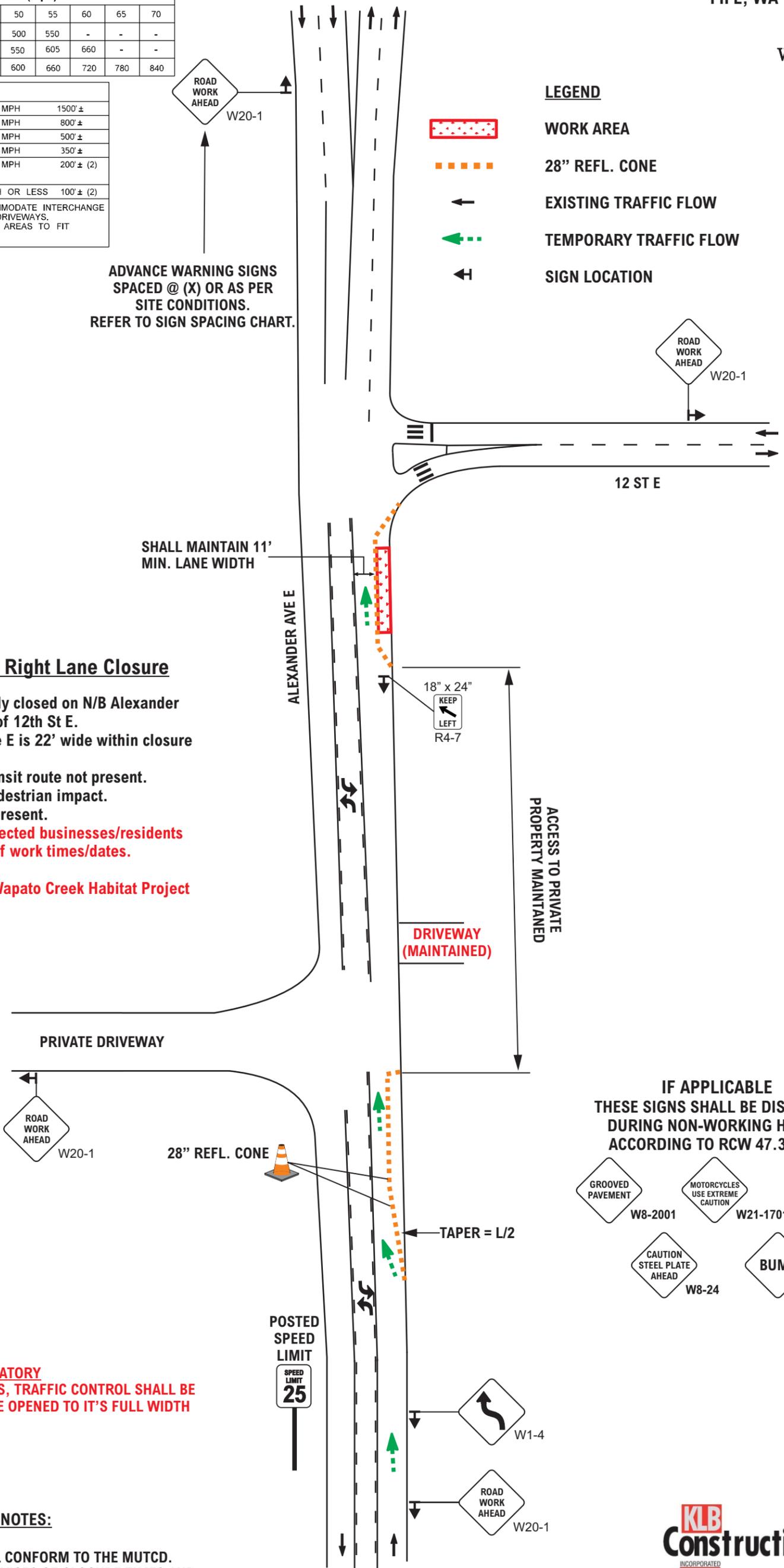
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
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ADVANCE WARNING SIGNS SPACED @ (X) OR AS PER SITE CONDITIONS. REFER TO SIGN SPACING CHART.

LEGEND

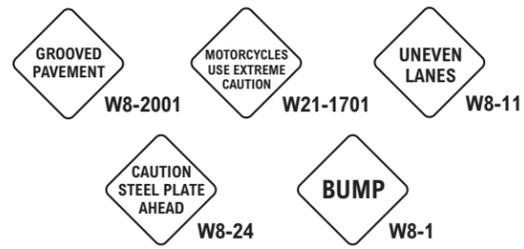
- WORK AREA
- 28" REFL. CONE
- EXISTING TRAFFIC FLOW
- TEMPORARY TRAFFIC FLOW
- SIGN LOCATION



Typical Partial Right Lane Closure

- Right lane partially closed on N/B Alexander Ave E in advance of 12th St E.
- N/B Alexander Ave E is 22' wide within closure area.
- Pierce County Transit route not present.
- No anticipated pedestrian impact.
- Parking lane not present.
- **MANDATORY: Affected businesses/residents shall be notified of work times/dates.**
- **REASON: Lower Wapato Creek Habitat Project construction.**

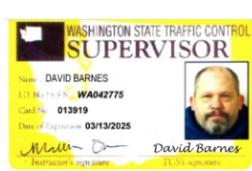
IF APPLICABLE THESE SIGNS SHALL BE DISPLAYED DURING NON-WORKING HOURS ACCORDING TO RCW 47.36.200



MANDATORY
DURING NON-WORKING HOURS, TRAFFIC CONTROL SHALL BE REMOVED AND ROW SHALL BE OPENED TO IT'S FULL WIDTH

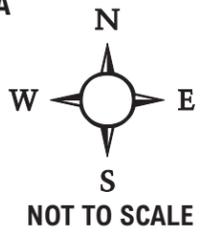
GENERAL NOTES:

1. ALL SIGNS AND SPACING SHALL CONFORM TO THE MUTCD.
2. NOTIFY LOCAL EMERGENCY SERVICES OF CLOSURE TIMES AND DATES (OPTIONAL).
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4. PROTECTIVE VEHICLE RECOMMENDED-MAY BE A WORK TRUCK.
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7. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND/OR DRIVEWAYS.



CONTRACTOR		KLB Construction Inc	
SUPERVISOR		Will Case	
PHONE NUMBER (office)	509-306-9506	PROJECT LOCATION	Fife, WA
PHONE NUMBER (fax)		SHEET NUMBER	KLB.04
PREPARED BY	David Barnes	PHONE#	253-331-8248
E-MAIL	david@trafficcontrolplan.net	DATE	7/9/21





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	-	-	-
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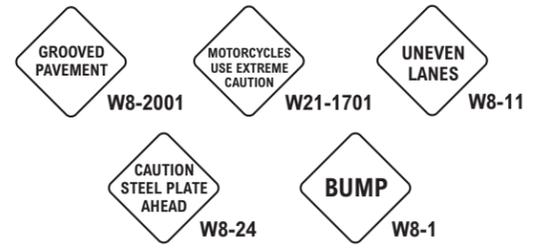
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CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
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DURING HOURS OF DARKNESS, FLAGGER STATIONS SHALL BE ILLUMINATED WITHOUT CAUSING GLARE TO THE TRAVELING PUBLIC USING PORTABLE LIGHT TOWER OR APPROVED ALTERNATIVE.
WAC 296-155-305 SECTION 9(C)

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Typical Right Lane Closure/UPO Controlled

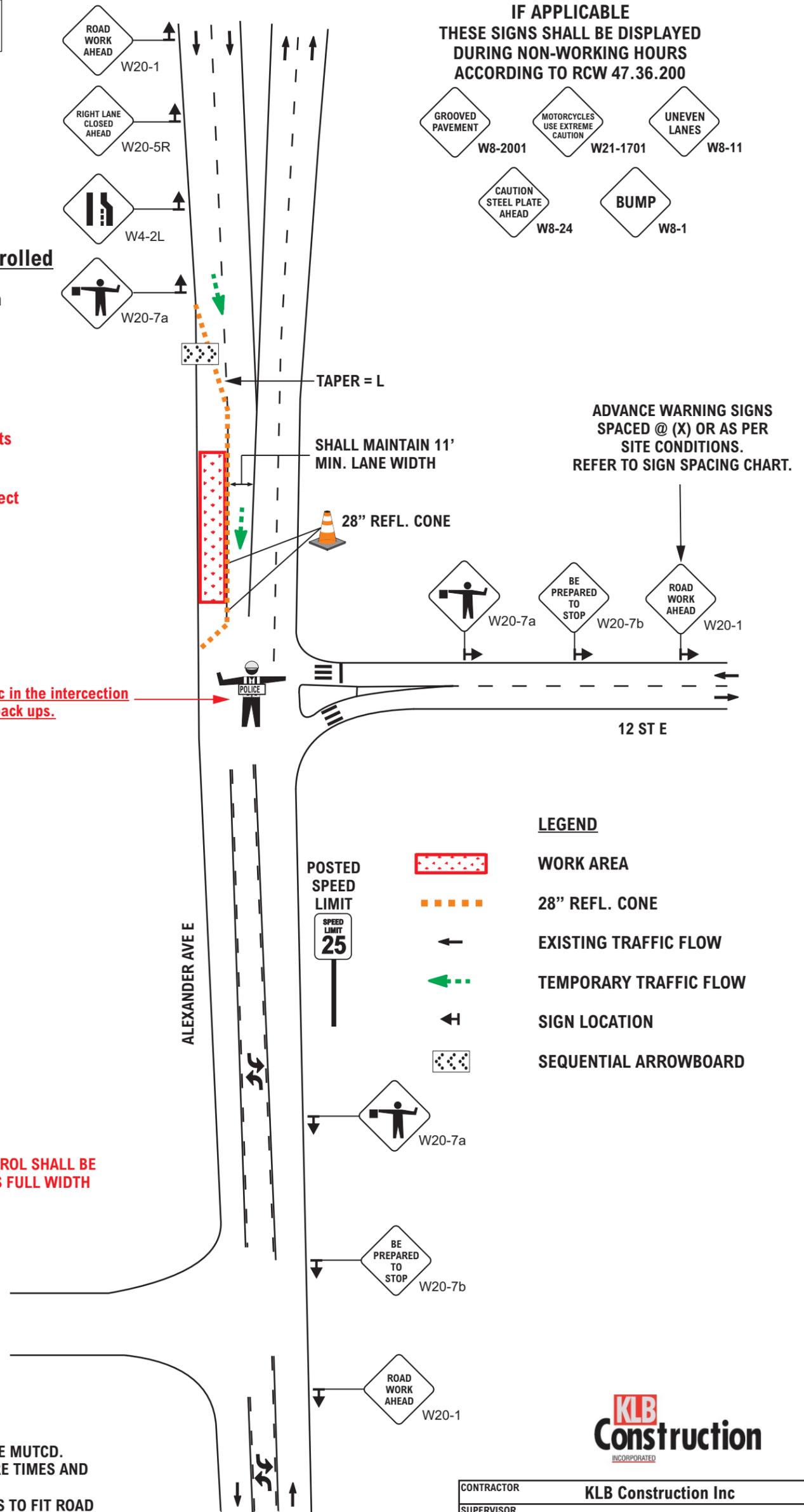
- Right lane closed on S/B Alexander Ave E in advance of 12th St E.
- UPO shall control all traffic flow within the intersection.
- Pierce County Transit route not present.
- No anticipated pedestrian impact.
- Parking lane not present.
- **MANDATORY: Affected businesses/residents shall be notified of work times/dates.**
- **REASON: Lower Wapato Creek Habitat Project construction.**

UPO is to control traffic in the intersection to prevent back ups.

MANDATORY
DURING NON-WORKING HOURS, TRAFFIC CONTROL SHALL BE REMOVED AND ROW SHALL BE OPENED TO IT'S FULL WIDTH

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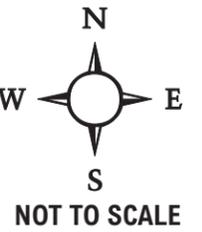
LEGEND

- WORK AREA
- 28" REFL. CONE
- EXISTING TRAFFIC FLOW
- TEMPORARY TRAFFIC FLOW
- SIGN LOCATION
- SEQUENTIAL ARROWBOARD



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PHONE NUMBER (fax)		SHEET NUMBER	KLB.05
DATE	7/9/21	DATE	7/9/21
PREPARED BY	David Barnes	PHONE#	253-331-8248
E-MAIL	david@trafficcontrolplan.net		



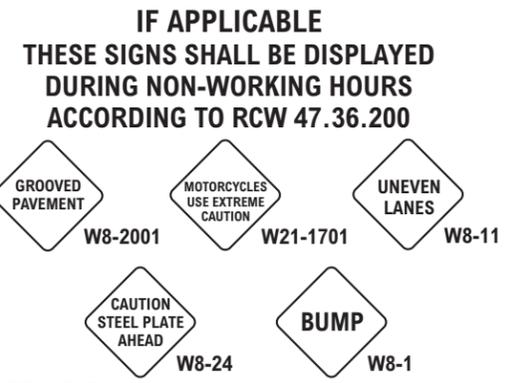
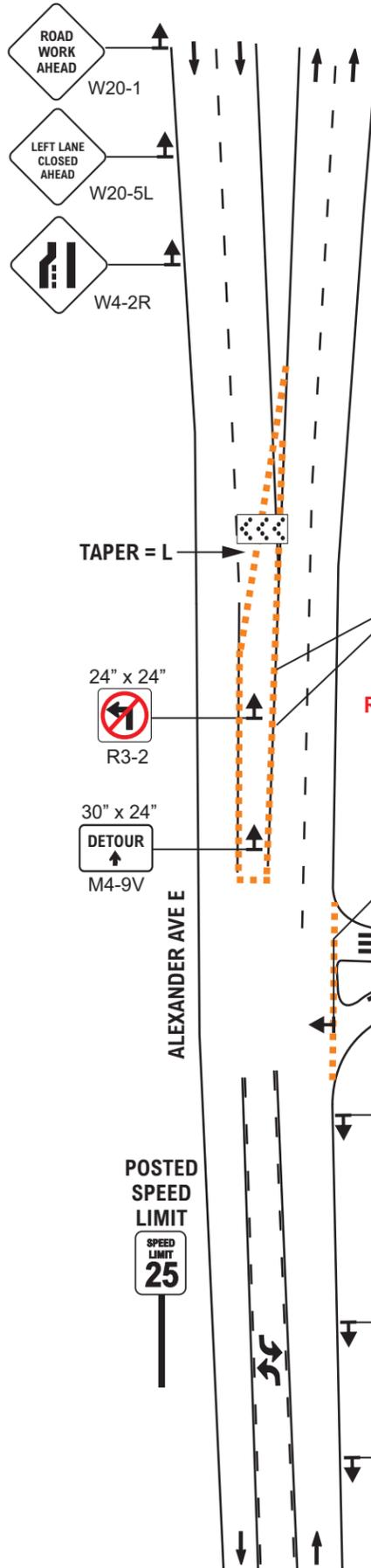


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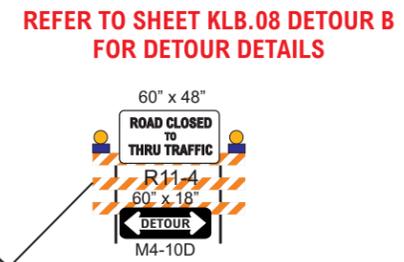


- LEGEND**
- WORK AREA
 - 28" REFL. CONE
 - EXISTING TRAFFIC FLOW
 - SIGN LOCATION
 - FLAGGING STATION
 - SEQUENTIAL ARROWBOARD

Typical Road Closure/Detour Route Provided

- 12th St E closed between Alexander Ave E & 46 Ave E.
- Detour route provided.
- Pierce County Transit route not present.
- No anticipated pedestrian impact.
- Parking lane not present.
- **MANDATORY: Affected businesses/residents shall be notified of work times/dates.**
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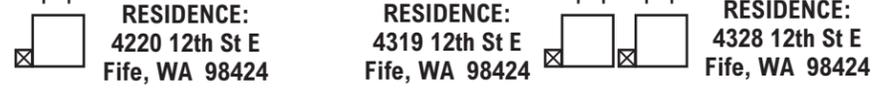


ADVANCE WARNING SIGNS SPACED @ (X) OR AS PER SITE CONDITIONS.
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4. PROTECTIVE VEHICLE RECOMMENDED-MAY BE A WORK TRUCK.
5. ALL SIGNS MIN. 48" x 48" UNLESS OTHERWISE SPECIFIED.
6. CHANNELIZATION DEVICES ARE 28" REFL. CONES (see TABLE (1) for spacing distances).
7. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND/OR DRIVEWAYS.

MANDATORY
DURING NON-WORKING HOURS, TRAFFIC CONTROL SHALL BE REMOVED AND ROW SHALL BE OPENED TO IT'S FULL WIDTH

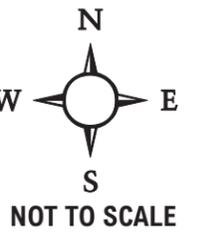


CONTRACTOR		KLB Construction Inc	
SUPERVISOR		Will Case	
PHONE NUMBER (office)	509-306-9506	PROJECT LOCATION	Fife, WA
PHONE NUMBER (fax)		DATE	7/9/21
PREPARED BY	David Barnes	SHEET NUMBER	KLB.06
E-MAIL	david@trafficcontrolplan.net	PHONE#	253-331-8248

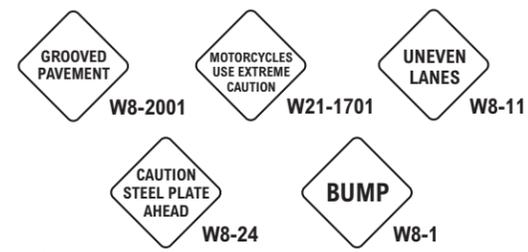


MATCH SHEET KLB.07

SIGN SPACING = X		
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	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.		



IF APPLICABLE
THESE SIGNS SHALL BE DISPLAYED
DURING NON-WORKING HOURS
ACCORDING TO RCW 47.36.200



Typical Road Closure/Detour Route Provided

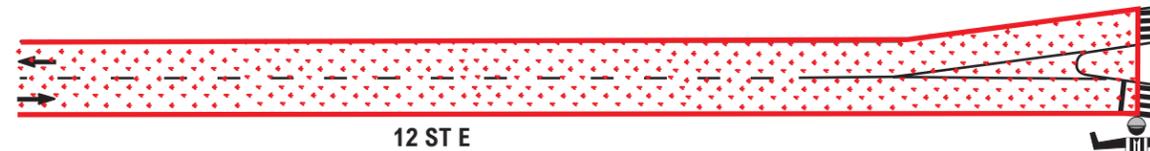
- 12th St E closed between Alexander Ave E & 46 Ave E.
- Detour route provided.
- Pierce County Transit route not present.
- No anticipated pedestrian impact.
- Parking lane not present.
- **MANDATORY: Affected businesses/residents shall be notified of work times/dates.**
- **REASON: Lower Wapato Creek Habitat Project construction.**

LEGEND

- WORK AREA
- 28" REFL. CONE
- EXISTING TRAFFIC FLOW
- SIGN LOCATION
- FLAGGING STATION

MATCH SHEET KLB.06

REFER TO SHEET KLB.08 DETOUR B FOR DETOUR DETAILS



FLAGGER shall allow local access to residents. Residents shall be instructed to arrive/depart area using easternmost closure access point.

MANDATORY
DURING NON-WORKING HOURS, TRAFFIC CONTROL SHALL BE REMOVED AND ROW SHALL BE OPENED TO IT'S FULL WIDTH

GENERAL NOTES:

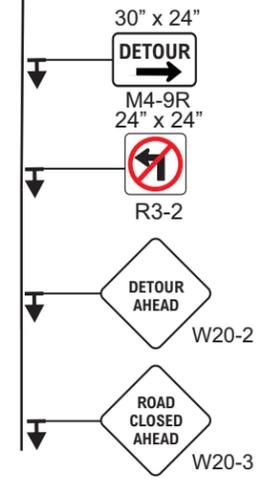
1. ALL SIGNS AND SPACING SHALL CONFORM TO THE MUTCD.
2. NOTIFY LOCAL EMERGENCY SERVICES OF CLOSURE TIMES AND DATES (OPTIONAL).
3. SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROAD CONDITIONS.
4. PROTECTIVE VEHICLE RECOMMENDED-MAY BE A WORK TRUCK.
5. ALL SIGNS MIN. 48" x 48" UNLESS OTHERWISE SPECIFIED.
6. CHANNELIZATION DEVICES ARE 28" REFL. CONES (see TABLE (1) for spacing distances).
7. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND/OR DRIVEWAYS.



DURING HOURS OF DARKNESS, FLAGGER STATIONS SHALL BE ILLUMINATED WITHOUT CAUSING GLARE TO THE TRAVELING PUBLIC USING PORTABLE LIGHT TOWER OR APPROVED ALTERNATIVE.
WAC 296-155-305 SECTION 9(C)

46 AVE E

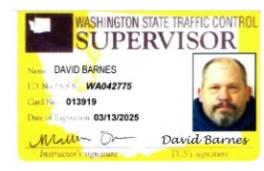
47 AVE E

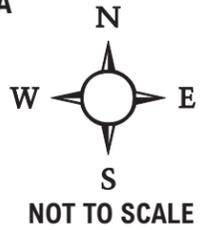


POSTED SPEED LIMIT
SPEED LIMIT
25



CONTRACTOR		KLB Construction Inc	
SUPERVISOR		Will Case	
PHONE NUMBER (office)		509-306-9506	
PHONE NUMBER (fax)		509-306-9506	
SHEET NUMBER		KLB.07	
DATE		7/9/21	
PREPARED BY		David Barnes	
PHONE#		253-331-8248	
E-MAIL		david@trafficcontrolplan.net	





DETOUR A

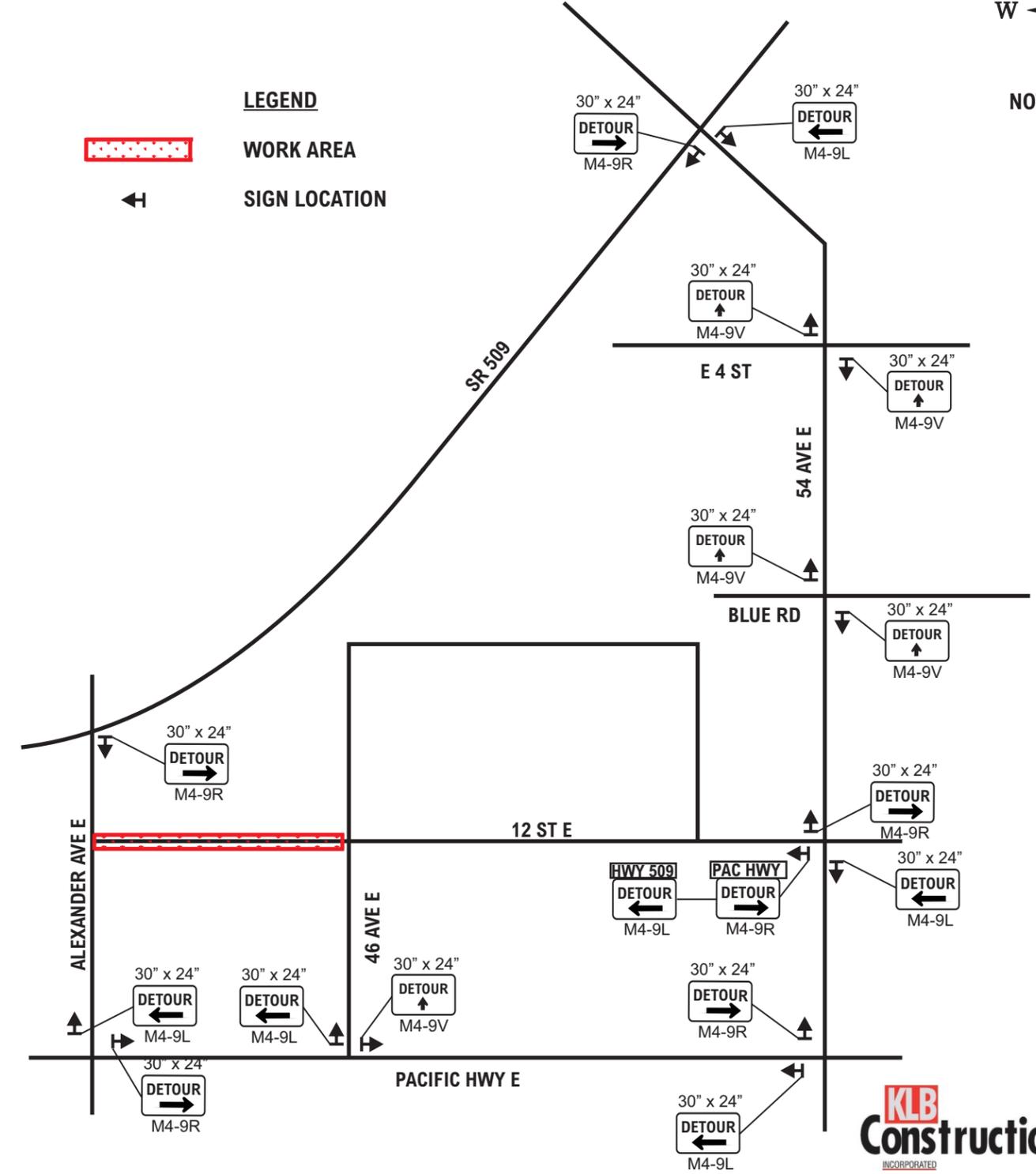
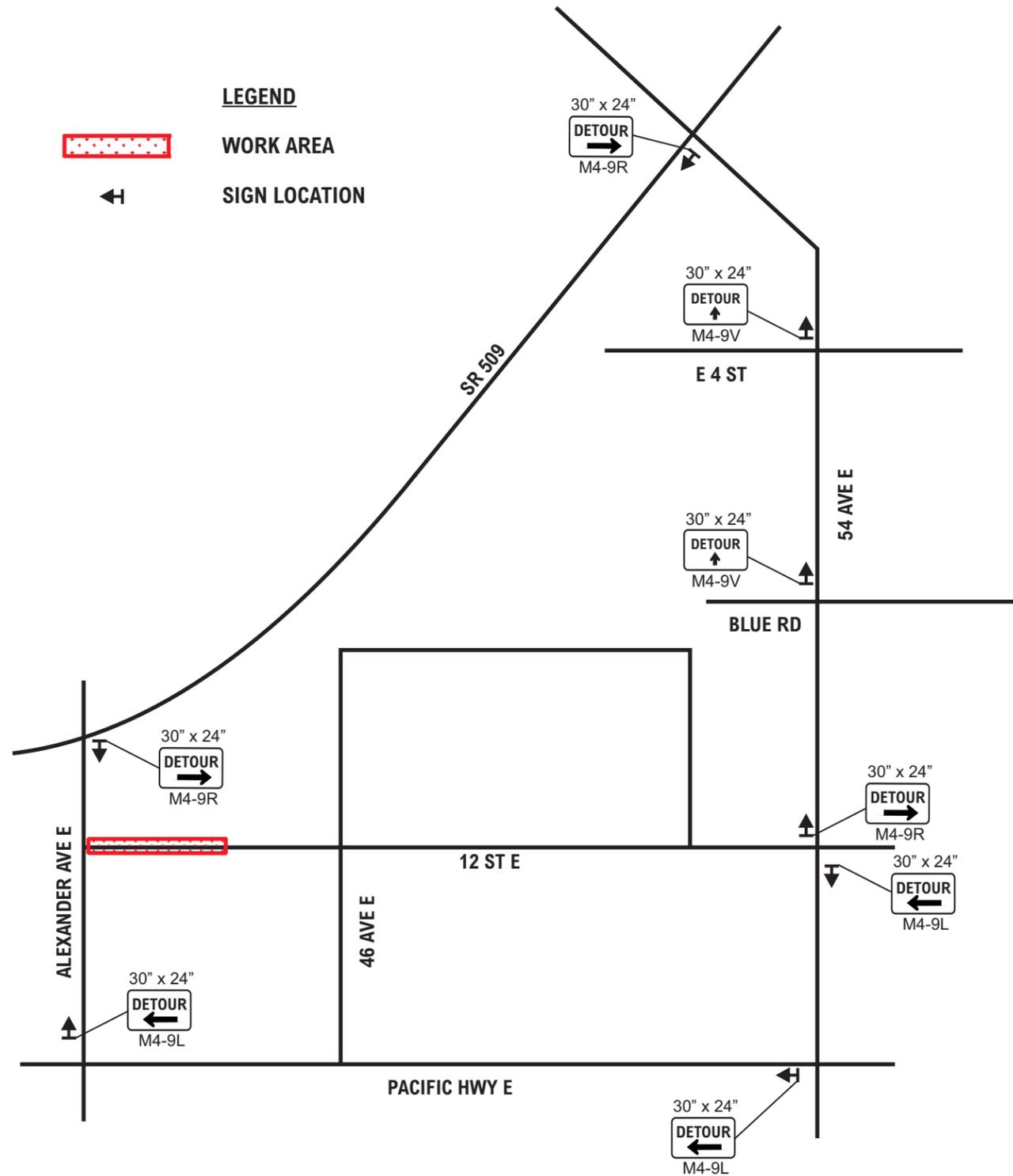
DETOUR B

LEGEND

- WORK AREA
- SIGN LOCATION

LEGEND

- WORK AREA
- SIGN LOCATION



CONTRACTOR		KLB Construction Inc	
SUPERVISOR		WO #	
Will Case			
PHONE NUMBER (office)		PROJECT LOCATION	
509-306-9506		Fife, WA	
PHONE NUMBER (fax)		DATE	
		7/9/21	
SHEET NUMBER		DATE	
KLB.08			
PREPARED BY		PHONE#	
David Barnes		253-331-8248	
E-MAIL			
david@trafficcontrolplan.net			

