### Location

Hwy 25 @ Cross Street, District of North Peace

(Highway @ Cross Street, Municipality)

#### Instructions:

- This checklist must be completed for all new or modifications to existing traffic signals.
- Attach supplementary pages if the space provided is not adequate.
- The Traffic Design Scope section must be signed and sealed by the Engineer of Record.
- The MoTI Traffic Operations Engineering Approval section must be signed for completion.

#### **Scope** (Describe the scope of work in the box below)

<ul> <li>Modify existing traffic signal – Add NB left turn arrow</li> <li>Modify traffic islands – Add right turn lanes in all four directions</li> <li>Installation of NB deceleration and acceleration lane</li> </ul>							
Civil Design Scope							
Comments based on: and/or:⊠ Civil design drawings# <u>R1-456-402 (May 26, 2003)</u> □ Existing electrical drawingsTE #							
Crosswalk revisions							
□ No ⊠ Yes <u>All channelized right-turns to be "zebra markings"</u> (Description or attached drawing)							
Stop line revisions							
□ No ⊠ Yes <u>See attached dwg R1-456-402 (May 26, 2003)</u> (Description or attached drawing)							
Lane marking revisions							
□ No ⊠ Yes <u>Continuity lines at NB deceleration and acceleration lanes</u> (Description or attached drawing)							
Turning path revisions							
□ No ☑ Yes <u>All movements designed to accommodate design vehicle WB-15</u> (Description or attached drawing)							
Civil Design prepared by:							
Sample Engineer P.Eng. (Print Name)Senior EngineerJuly 15, 2019(Title)(Title)(Date)							

## Traffic Design Scope

Major Road Class	ification	<u>Urban</u>	Arterial				
Major Road AADT		□ > 200	□ 200	- 749	□ 750 – 15	600 🗌 1501 - 6	6000 🖂 6000 +
Minor Road AADT		□ > 200	□ 200	- 749	⊠ 750 – 15	500 🗌 1501 - 6	6000 🗆 6000 +
Pedestrian Clas	□ Low ((	)-10)	□ Me	dium (11-99)	□ High (100+)	I	
Signing modificati	Signing modifications (If yes below, describe in detail or attach drawing)						
Guide Signs							
□ No ⊠ Yes <u>Relocate existing post mounted G-1 (destination dirn) sign 50m south</u> (Size and Location)							1 50m south
Lane Use Signs							
	s Install	shoulder	mounted	R-82	R (this lane ri (Locations)	ght) on EB & V	VB Cross St
Turn Restriction	Signs						
	✓ Yes Install R-15L (no left) and R-15T (time restriction tab) on EB Cross St (Type and Location)						
Other Signs				(,	ypo ana Looallony		
□ No ⊠ Yes	Remov	Remove W-7 (side road) warning sign in NB dirn, as access is being close					
				(Des	cription and Locati	on)	
Special Features						<b>.</b>	
Advance Warning Flasher signs (Complete table below even if no AWF required)							
$\Box$ No $\boxtimes$ Yes	s <u>Reloca</u>		IG NB adv		Warning flash List Approaches)	ning (AWF) sig	n
Route: High	way 25				Route: Cross	Street	
Direction	Speed (k	(m/h) C	Grade (%)	Minor	Direction	Speed (km/h)	Grade (%)
Eastbound Westbound	60		- 4.2	Σ	Northbound Southbound	50	0
Island flashers	60		2		Southbound	50	0
		high into	ncity choo	ting f	or M 54's Int	oreaction illum	vinated
No □ Yes Install high intensity sheeting for W-54's- Intersection illuminated (Note those which exceed standards)							
Emergency Pre-emption (Fire, Police, Ambulance, All)							
□ No ⊠ Yes <u>City supplied "Sonic" pre-emption</u> ( <i>Type – Hardwire, Audible, Radio, Strobe</i> )							
Indication Lights							
□ No ⊠ Yes <u>Blue/white indicators on signal arms on N/S approaches</u> ( <i>Type and Approach</i> )							
Transit Pre-emption							
$\boxtimes$ No $\square$ Yes							
	(Type – Radio, GPS)						

Railway Pre-em	ption						
🗆 No 🛛 Ye	s East approach						
		(Туре	e and approaches)				
Blank Out Display							
	Yes Fibre optic "no right turn" NB right						
Audible signals			(Approach[s])				
□ No ⊠ Ye	s <u>N/S movement a</u>	long Hwy 25 (au (Sound Type)	udible cuckoo) – west side only (PA2) for Each Intersection leg)	)			
Countdown Tim	ers						
□ Install New	⊠ Existing in Pla	ice	Other				
Cyclist Accomm	nodation						
	s Stencil markings	Stencil markings on Cross St as per City's request (Describe – Loops, Stencils, Pushbuttons)					
Transit/HOV Accommodation							
□ No ⊠ Yes	s <u>Relocate bus bay to the downstream of the intersection in the NB direction</u> (Describe - HOV laning, additional phasing)						
Special detector requirements							
□ No ⊠ Yes <u>NB/SB advance loops at AWF sign locations to extend A1 &amp; A2 phases</u> (Advance loops, Queue loops, etc.)							
Future requirem	nents						
	s <u>Pre-wire for futur</u>		rrow wws, different phasing, etc.)				
Cabinet and Cont	roller	·					
Cabinet Installa	tion						
Install New	$I \boxtimes \text{Use existing (see below)}$						
Cabinet Type (e	enter type whether usi	ng new or existing	g as indicated above)				
□ M Cabinet	□ S Cabinet	☑ P6 Cabinet	Other				
Controller Instal	llation						
Install New	⊠ Use existing						
Controller Type (enter type whether using new or existing as indicated above)							
⊠ Cobalt	□ Naztec		Other				
UPS Installation	ì						
□ Install New	⊠ Existing in Pla	ice	Other				

Other items or comments: (Add comments below. Attach supplementary pages if not adequate.)

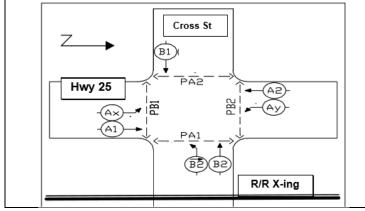
• Signed and sealed civil drawings included

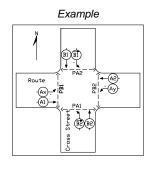
### Attach a preliminary timing sheet showing the following:

- Phase Assignments
- Resting/Recall Phases
- Advance Warning Times

### Traffic Design Scope (Continued)

Signal Phasing Layout (show all movements and North arrow)

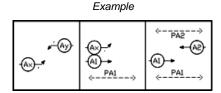




Signal Phasing Compatibility Diagram (relative to site diagram above)

▲ Ay <b>⊀</b>		A2 Ay	A1 RA-1 PA2 A1 RA-1 PA2
	*RIR clearence B2-> B2	A1 PA1	*R/R pre-empt ¢
emerg pre-empt $\phi$ A2 A2 Ay	emerg pre-empt $\phi A1$ Ax A1	*"No right turn sign" activated during these phases	

Traffic Engineering Prepared By:



Show all combinations of vehicle and pedestrian movements in sequence.

Show emergency, railway, bus and other pre-emption sequences.

Identify clearance and pre-emption phases.

(Printed Engineer's Name) (Date) (Position) (Reviewed By) (Date) (Reviewer's Signature)

MoTI Traffic Operations Engineering Approval (Section must be completed)

- □ Internal Project (Sign off not required)
- $\Box$  Recommend to proceed.

### □ Changes required (Consultant must resubmit. See Comments below):

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(MoTI Traffic Operations Engineer Signature)

(Date)