## ENEL 487 - Intersection: Gordon and Lockwood

## 1 Introduction

This document shows some example data taken from the traffic intersection at Gordon Road and Lockwood Road, in the city of Regina, SK, Canada, on 16:04 2020-09-12 Saturday. The Primary road is Gordon, and the Secondary is Lockwood.

## 1.1 The cycle times

This intersection has Red/Yellow/Green lights, as well as pedestrian crossings, in all four directions.

The usual range of durations for light times are given in the following table in seconds. Actual measured values for the Gordon/Lockwood intersection are in parentheses.

Parameter	Abbrev.	Value Range	Description
Primary GREEN	PGT	10-180 (83.5)	Length of time the primary GREEN light
Time			is on
Primary YELLOW	PYT	2-10 (3.5)	Length of time the primary YELLOW light
Time			is on
Primary RED Delay	PRDT	0-7 (6)	Length of time between when primary
Time			RED light is turned on and the secondary
			GREEN light is turned on.
Primary Walk Time	PWT	10–180 (83.5)	Length of time the primary walk light is on
Primary Walk Warn-	PWWT	2-10 (3.5)	Length of time the primary walk warning
ing Time			light is on
Primary Don't Walk	PDWT	0-7 (6)	Length of time the primary don't walk
Time			light is on.
Secondary GREEN	SGT	10-180 (28)	Length of time the secondary GREEN light
Time			is on
Secondary YELLOW	SYT	2-10 (3.5)	Length of time the secondary YELLOW
Time			light is on
Secondary RED Delay	SRDT	0-7 (0)	Length of time between when secondary
Time			RED light is turned on and the primary
			GREEN light is turned on.
Secondary Walk Time	SWT	10–180 (83.5)	Length of time the secondary walk light is
			on
Secondary Walk Warn-	SWWT	2-10 (3.5)	Length of time the secondary walk warning
ing Time			light is on
Secondary Don't Walk	SDWT	0-7 (6)	Length of time the secondary don't walk
Time			light is on.

## 1.2 Timing Diagram

The timing diagram follows from the data in the above table. I have used the letters **R** (Red), **Y** (Yellow), and **G** (Green) for traffic lights and **DW** (Don't Walk), **WW** (Walk Warning), and **WK** (Walk) for Walk Lights.

The full cycle time for the intersection is 124.5 s. The the walk light timings measured were those default values used in the absence of pedestrian-activated behaviour; whether such activation changes the timing was not determined.

In other words, the timing diagram shows the intersection's behaviour in Static Cycle Mode (SCM).

