FORM A: PROPOSAL

(See B9)

1. **Contract Title** SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM

2. Bidder

3.

4.

	Name of Bidder		
	Usual Business Name of Bidd	er as it appears on Invoice (if differen	t from above)
	Street		
	City	Province	Postal Cod
	Email Address of Bidder		
	Facsimile Number		
(Mailing address if different)	Street or P.O. Box		
	City	Province	Postal Cod
	GST Registration Number (if a	applicable) Province	Postal Cod
(Choose one)	The Bidder is:		
	a sole proprietor		
	a partnership		
	a corporation		
	carrying on business un	der the above name.	
Contact Person	The Bidder hereby auth the Bidder for purposes	orizes the following contact p of the Proposal.	person to represen
	Contact Person	Title	
	Telephone Number	Facsimile Number	
Definitions	All capitalized terms u	sed in the Contract shall h	ave the meaning

ascribed to them in the General Conditions and D3.

- 5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the Price(s), in Canadian funds, set out on Form B: Prices, appended hereto.
- 6. Execution of Contract The Bidder agrees to execute and return the Contract no later than seven (7) Calendar Days after receipt of the Contract, in the manner specified in C4.1.
- 7. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.
- 8. Contract The Bidder agrees that the Request for Proposal in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Proposal.
- 9. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.	 Dated	

10. Time This offer shall be open for acceptance, binding and irrevocable for a period of one-hundred and twenty (120) Calendar Days following the Submission Deadline.

11. Signatures

The Bidder or the Bidder's authorized official or officials have signed this

_____ day of _____ , 20_____ .

Signature of Bidder or Bidder's Authorized Official or Officials

(Print here name and official capacity of individual whose signature appears above)

(Print here name and official capacity of individual whose signature appears above)

FORM B: PRICES ALTERNATIVE ONE (1) – Digital Technology (See B10)

SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM

ITEM			
NO.	DESCRIPTION	UNIT	AMOUNT
1.	Fixed Processing fee [see B10 and D3.1(f)] – (84 months)	per month	
accum	escriptions below refer to the volume of Offence Notices issued. Amoun nulative with lesser values but represent the sole variable cost associate month		
2.	Variable Fee for Volume of Offence Notices issued: 1 – 1,000	per month	
3.	Variable Fee for Volume of Offence Notices issued: 1001 – 2,000	per month	
4.	Variable Fee for Volume of Offence Notices issued: 2001 – 3,000	per month	
5.	Variable Fee for Volume of Offence Notices issued: 3001 – 4,000	per month	
6.	Variable Fee for Volume of Offence Notices issued: 4001 – 5,000	per month	
7.	Variable Fee for Volume of Offence Notices issued: 5,001 – 6,000	per month	
8.	Variable Fee for Volume of Offence Notices issued: 6,001 – 7,000	per month	
9.	Variable Fee for Volume of Offence Notices issued: 7,001 – 8,000	per month	
10.	Variable Fee for Volume of Offence Notices issued: $8,001 - 9,000$	per month	
11.	Variable Fee for Volume of Offence Notices issued: 9,001 – 10,000	per month	
12.	Variable Fee for Volume of Offence Notices issued: 10,001 – 11,000	per month	
13.	Variable Fee for Volume of Offence Notices issued: 11,001 – 12,000	per month	
14.	Variable Fee for Volume of Offence Notices issued: 12,001 – 13,000	per month	
15.	Variable Fee for Volume of Offence Notices issued: 13,001 – 14,000	per month	
16.	Variable Fee for Volume of Offence Notices issued: 14,001 – 15,000	per month	
17.	Variable Fee for Volume of Offence Notices issued: 15,001 – 16,000	per month	
18.	Variable Fee for Volume of Offence Notices issued: 16,001 – 17,000	per month	
19.	Variable Fee for Volume of Offence Notices issued: 17,001–18,000	per month	
20.	Variable Fee for Volume of Offence Notices issued: 18,001–19,000	per month	
21.	Variable Fee for Volume of Offence Notices issued: 19,001–20,000	per month	
22.	Variable Fee for Volume of Offence Notices issued: 20,001-21,000	per month	
23.	Variable Fee for Volume of Offence Notices issued: 21,001–22,000	per month	
24.	Variable Fee for Volume of Offence Notices issued: 22,001–23,000	per month	
25.	Variable Fee for Volume of Offence Notices issued: 23,001–24,000	per month	
26.	Variable Fee for Volume of Offence Notices issued: 24,001–25,000	per month	
27.	Variable Fee for Volume of Offence Notices issued: 25,001 – 26,000	per month	

FORM B: PRICES ALTERNATIVE ONE (1) – Digital Technology (See B10)

SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM

ITEM NO.	DESCRIPTION	UNIT	AMOUNT		
28.	Variable Fee for Volume of Offence Notices issued: 26,001 – 27,000	per month			
29.	Variable Fee for Volume of Offence Notices issued: 27,001 – 28,000	per month			
30.	Variable Fee for Volume of Offence Notices issued: 28,001 – 29,000	per month			
31.	Variable Fee for Volume of Offence Notices issued: 29,001 – 30,000	per month			
32.	Variable Fee for Volume of Offence Notices issued: 30,001 – 31,000	per month			
33.	Variable Fee for Volume of Offence Notices issued: 31,001 – 32,000	per month			
34.	Variable Fee for Volume of Offence Notices issued: 32,001 – 33,000	per month			
35.	Variable Fee for Volume of Offence Notices issued: 33,001 – 34,000	per month			
36.	Variable Fee for Volume of Offence Notices issued: 34,001 – 35,000	per month			
37.	Variable Fee for Volume of Offence Notices issued: 35,001 – 36,000	per month			
38.	Variable Fee for Volume of Offence Notices issued: 36,001 – 37,000	per month			
39.	Variable Fee for Volume of Offence Notices issued: 37,001 – 38,000	per month			
40.	Variable Fee for Volume of Offence Notices issued: 38,001 – 39,000	per month			
41.	Variable Fee for Volume of Offence Notices issued: 39,001 – 40,000	per month			
GST 8	GST & PST extra, where applicable.				

FORM B: PRICES ALTERNATIVE TWO (2) - Digital Technology (See B10)

SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM

ITEM	DESCRIPTION	UNIT	AMOUNT
NO. The d	escriptions below refer to the volume of Offence Notice	_	
accum	nulative with lesser values but represent the sole variab		
1.	Volume of Offence Notices issued: 1 – 1,000	per Offence Notice issued	
2.	Volume of Offence Notices issued: 1,001 – 2,000	per Offence Notice issued	
3.	Volume of Offence Notices issued: 2,001 – 3,000	per Offence Notice issued	
4.	Volume of Offence Notices issued: 3,001 – 4,000	per Offence Notice issued	
5.	Volume of Offence Notices issued: 4,001 – 5,000	per Offence Notice issued	
6.	Volume of Offence Notices issued: 5,001 – 6,000	per Offence Notice issued	
7.	Volume of Offence Notices issued: 6,001 – 7,000	per Offence Notice issued	
8.	Volume of Offence Notices issued: 7,001 – 8,000	per Offence Notice issued	
9.	Volume of Offence Notices issued: 8,001 – 9,000	per Offence Notice issued	
10.	Volume of Offence Notices issued: 9,001 – 10,000	per Offence Notice issued	
11.	Volume of Offence Notices issued: 10,001 – 11,000	per Offence Notice issued	
12.	Volume of Offence Notices issued: 11,001 – 12,000	per Offence Notice issued	
13.	Volume of Offence Notices issued: 12,001 – 13,000	per Offence Notice issued	
14.	Volume of Offence Notices issued: 13,001 – 14,000	per Offence Notice issued	
15.	Volume of Offence Notices issued: 14,001 – 15,000	per Offence Notice issued	
16.	Volume of Offence Notices issued: 15,001 – 16,000	per Offence Notice issued	
17.	Volume of Offence Notices issued: 16,001 – 17,000	per Offence Notice issued	
18.	Volume of Offence Notices issued: 17,001– 18,000	per Offence Notice issued	
19.	Volume of Offence Notices issued: 18,001– 19,000	per Offence Notice issued	
20.	Volume of Offence Notices issued: 19,001–20,000	per Offence Notice issued	
21.	Volume of Offence Notices issued: 20,001–21,000	per Offence Notice issued	
22.	Volume of Offence Notices issued: 21,001–22,000	per Offence Notice issued	
23.	Volume of Offence Notices issued: 22,001–23,000	per Offence Notice issued	
24.	Volume of Offence Notices issued: 23,001–24,000	per Offence Notice issued	
25.	Volume of Offence Notices issued: 24,001–25,000	per Offence Notice issued	
26.	Volume of Offence Notices issued: 25,001 – 26,000	per Offence Notice issued	
27.	Volume of Offence Notices issued: 26,001 – 27,000	per Offence Notice issued	
	1	1	

FORM B: PRICES ALTERNATIVE TWO (2) - Digital Technology (See B10)

SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM

ITEM NO.	DESCRIPTION	UNIT	AMOUNT	
28.	Volume of Offence Notices issued: 27,001 – 28,000	per Offence Notice issued		
29.	Volume of Offence Notices issued: 28,001 – 29,000	per Offence Notice issued		
30.	Volume of Offence Notices issued: 29,001 – 30,000	per Offence Notice issued		
31.	Volume of Offence Notices issued: 30,001 – 31,000	per Offence Notice issued		
32.	Volume of Offence Notices issued: 31,001 – 32,000	per Offence Notice issued		
33.	Volume of Offence Notices issued: 32,001 – 33,000	per Offence Notice issued		
34.	Volume of Offence Notices issued: 33,001 – 34,000	per Offence Notice issued		
35.	Volume of Offence Notices issued: 34,001 – 35,000	per Offence Notice issued		
36.	Volume of Offence Notices issued: 35,001 – 36,000	per Offence Notice issued		
37.	Volume of Offence Notices issued: 36,001 – 37,000	per Offence Notice issued		
38.	Volume of Offence Notices issued: 37,001 – 38,000	per Offence Notice issued		
39.	Volume of Offence Notices issued: 38,001 – 39,000	per Offence Notice issued		
40.	Volume of Offence Notices issued: 39,001 – 40,000	per Offence Notice issued		
GST 8	GST & PST extra, where applicable. Name of Bidder			

	FORM B: PRICES ALTERNATIVE THREE (3) – Digital Technology (See B10)				
	SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM				
UNIT	PRICES				
ITEM NO.	DESCRIPTION	UNIT	AMOUNT		
1.	Fixed Processing fee [see B10 and D3.1(f)] – (84 months)	per month			
GST 8	GST & PST extra, where applicable.				
	Name of Bidder				

DETAILED SPECIFICATIONS - RESPONSE INSTRUCTIONS

All of the clauses of these Detailed Specifications require a response by the Bidder, using Yes or No, in the area marked by a box, provided beside the clause:

<u>Response Code</u>	<u>Definition</u>
Yes	The proposed equipment or service complies with the requirement.

The proposed equipment or service does not comply with the requirement.

In addition:

No

If a further response is required by an instruction, the Bidder may insert his response directly beside the instruction or provide it in a separate document included in his Proposal Submission.

If the response is provided in a separate document, the response must reference the number of the relevant Item number of the Detailed Specifications. The Bidder is requested <u>not</u> to reiterate the clause itself in the attachment.

If the Bidder wishes to provide any additional information that may be relevant to the Photo Enforcement Program (eg. Additional Features, Planned Future Enhancements etc) it may be included as a separate document. The City will consider such submissions as information only.

If the response is "No", for any item, an explanation as to why the specific requirement cannot be met and why it should not be considered a disadvantage in evaluating your proposal is requested.

Failure to respond to a clause of the Detailed Specifications Checklist that requires a response will be interpreted as a "No" response (The proposed equipment or service does not comply with the requirement).

FORM N: DETAILED SPECIFICATIONS

ITEM	DESCRIPTION	YES	No
	NTERSECTION SAFETY CAMERA (ISC) AND PHOTO RADAR SYS	STEM REQUIR	EMENTS
1.	The Contractor shall be capable of supply, installation and operation of a		
	digital system. The Bidder shall include documentation to describe the		
	systems and their components.		
	INTERSECTION SAFETY CAMERA (ISC) REQUIRE	MENTS	
2.	The Photo Enforcement Program incorporates an Intersection Safety		
	Camera with speed determination capabilities proven in on-the-street		
	service for photographing red light and speeding violations.		
3.	The Intersection Safety Camera Requirements include fifty (50)		
	Intersection Safety Camera locations capable of enforcement, serviced		
	by thirty-three (33) cameras on a rotational basis as determined by the		
	Contract Administrator.		
4.	The digital system incorporates summons-processing software used for		
	issuing summonses and/or warning notices for speeding violations. List		
	at least three (3) separate jurisdictions in North America including		
	contacts and date of operation, where the proposed summons-		
	processing system has been operated to enforce photo enforcement-		
	evidenced traffic violations.		
5.	The digital system has been proven in continuous on the street service		
	for photographing red light running violations. List at least three (3)		
	separate jurisdictions in North America, including contacts and date of		
	operation, where the Intersection Safety Camera has been operated,		
	each for a minimum of one (1) year. For each jurisdiction provide the		
	number of Intersection Safety Cameras involved.		
	The Interpretion Sefety Compression and personality required to be		
	The Intersection Safety Cameras are not necessarily required to be currently in operation, but jurisdictions in North America where the		
	intersection cameras were formerly in operation for a minimum period of		
	one (1) year are acceptable in accordance with the requirements stated		
	in Items 6 & 7.		
6.	The system shall not be based on the use of video cameras that record		
0.	images on magnetic media or via frame grabbing hardware and software.		
7.	The detection system shall use Electromotive Force (EMF) inductive		
	magnetic loops. Due to concern for durability and accuracy, piezo loops		
	and video detection systems are not acceptable.		
	ONAL REQUIREMENTS		
8.	Bidders shall provide image and data security procedures along with		
	Continuity of Evidence procedures for the digital systems regarding		
	Intersection Safety Cameras. Further, in regards to digital systems, the information provided shall be sufficient to prove to a Court of Law that the		
	electronic image is in its original format and has not been altered,		
	changed, amended or tampered with in any way whatsoever. Bidders		
	shall include information such as electronic data integrity and security		
	including but not limited to encryption, secure interconnects, file storage		
	and data compression.		
9.	The system shall be capable of identifying and photographing vehicles		
0.	traveling through a signalized intersection on the red phase (red light		
	violation) and speeding through the intersection during all three light		
	phases of traffic control using the same inductive loop system. The		
	system shall take two images of the rear of the vehicle as it proceeds		
	through the intersection, one with the vehicle prior to the stop line and		
	one with the vehicles clearly within the intersection.		
10.	Each violation will include two images of the violation.		

FORM N: DETAILED SPECIFICATIONS

ITEM	DESCRIPTION	YES	No
11.	The system shall be installed so that each violation can be recorded by		
	the camera unit at all times of the day, during all seasons of the year,		
	and under varying conditions of sunlight and shadowing, and at night.		
	The image shall incorporate the following views:		
	a) Rear view of vehicle;		
	b) Characters and numbers on reflectorized and non-reflectorized		
	license plates; and		
	c) Superimposed Data Information.		
12.	First Image		
	The first visual image must be recorded immediately prior to a		
	vehicle's front tires touching the stop line.		
	The first image triggered by the Intersection Safety Camera shall		
	contain all objects within the area of the camera's view, including		
	a) The vehicle's front tire;		
	b) The stop line;		
	c) The vehicle's rear license plate displaying the alphanumeric		
	characters unique to each license plate;		
	d) The traffic signal indication and colour of traffic signal indication		
	displayed; and		
	e) The intersection scene.		
	The first image must be able to be printed to sufficient resolution		
	such that all the above elements are clearly identifiable.		
	Second Image		
	The camera must record the second visual image at a suitable		
	distance from the stop line.		
	The second image triggered by the Intersection Safety Camera shall		
	contain all objects within the area of the camera's view, including;		
	f) The vehicle, if present, positioned in the intersection		
	g) The vehicle's rear license plate displaying the alphanumeric		
	characters unique to each license plate;		
	h) The traffic signal indication and colour of traffic signal indication		
	displayed; and		
	i) The intersection scene.		
13.	The proposed digital system shall be fully suitable and functional for		
	unattended use, under climatic conditions of the City of Winnipeg.		
	Provide documentation including contacts and date of operation where		
	the proposed digital system has been successfully installed and operated		
	in geographical locations with climatic conditions similar to the City of		
	Winnipeg.		
14.	The Contractor shall attend at each intersection safety camera site at a		
	minimum of two (2) times per week or additionally as required, to retrieve		
	all image and data evidence and to perform general maintenance and		
	required testing. Under no circumstances shall the Contractor download		
	image and data evidence remotely from any Intersection Safety Camera		
	location or Photo Radar/Laser vehicle via internet or any other means.		
	The Contractor shall ensure that the ability to remotely download data or		
	test Intersection Safety Camera sites shall be disabled in such a manner		
	that will be acceptable to the Contract Administrator.		
15.	The Contractor shall ensure that all intersections safety cameras are		
	serviced to indicate the correct time by 11:00 am on the two days of each		
	calendar year where the official time changes by law from or to Central		
	Standard Time from or to Day Light Savings Time		
1		1	1
16.	The system shall be fully suitable and functional for ease of installation,		

CAMER	A HOUSING AND POLE		
17.	The Contractor will install camera housings and poles at locations		
	determined by the City. The installation will include:		
	a) Complete construction responsibility;		
	b) Interfacing with existing traffic control signals;		
	c) Obtaining the necessary permits from respective utilities;		
	d) Establishment of a power source; and		
	e) All construction plans must conform to the City of Winnipeg		
	Standards.		
18.	A weather and vandal proof, lockable housing shall be provided to		
	protect the camera unit and its ancillary equipment, which shall include:		
	a) Water and spray resistant with sealed access panel;		
	b) Double walled steel construction including welded joints;		
	c) Baked enamel or powder coat paint finish;		
	d) Minimum of three (3) security locks;		
	e) Housing shall mount atop the pole so as to allow both horizontal and		
	vertical adjustment at the intersection; and		
	f) Pole shall be vertically manual (crown) or motorized.		
19.	The housing shall be securely mounted on the top of the pole. The pole		
	and cabinet shall have the following characteristics:		
	a) 10-12 feet from ground level to base of housing;		
	b) Allow for lowering of the cabinet to street level for easy servicing;		
	c) Constructed of steel with welded joints;		
	d) Zinc dipped and enamel painted for weather protection;		
	e) Securely installed to comply with City of Winnipeg Standard		
	mounting practices;		
	f) Provide access for conduits.		
20.	The cabinet shall be constructed so that the system is able to operate		
	inside the cabinet under an outside temperature range of -30°C to +30°C		
	and an outside humidity limit of 99 percent.		
21.	The camera housing shall contain a heating system which will reduce		
	any fogging on the windows which may obstruct the view of the camera		
22.	All cable assemblies and terminal blocks shall be located within the pole		
	housing.		
23.	All terminal blocks for input from the signal controller shall be UL or CSA		
	approved.		
24.	The unit shall operate on 110V AC 60Hz power supply, fused to protect		
	the camera unit.		
25.	The pole shall have a terminal block readily accessible to accept the		
THE OA	power, red light, and amber light and loop inputs.		
26.	The camera unit shall be on the Conforming Product List of the		
	International Association of Chiefs of Police (IACP) and will be subject to		
07	Provincial Regulatory approvals.		
27.	The camera unit shall provide high-resolution images of the vehicle		
	making the violation. The images shall be recorded on a digital memory		
	medium (ie. hard drive, flash stick or card) for the digital system.		
28.	The operation of the camera shall be microprocessor controlled and fully		
	automatic.		
29.	The camera unit shall be portable and easily removable from the cabinet		
	housing. Camera units shall be interchangeable so as to allow easy		
	relocation to other sites pre-installed with the poles, cabinets and		
20	detection zones.		
30.	The camera unit shall be constructed as one single unit incorporating the		
04	camera, flash, digital loop detector, keypad, and associated electronics.		
31.	Camera Unit Deployment: Year One; 33 camera units for 50 camera unit		
20	housings.		
32.	The camera unit shall be operable when placed into the housing cabinet		
	and properly connected via Amphenol type connectors	I	

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33.	The camera unit shall provide an LCD display of the current day, date and time (24 hour clock) so that it can easily be verified that the clock is functioning and set to the correct time. Service personnel shall be able to easily set the day, date and time on the street. At a minimum, the system clock shall maintain the current time to within	
	one (1) minute over a period of no less than seven (7) days.	
34.	The camera unit shall provide for placement of filters in front of the camera lens and the flash unit. This is in order to compensate for Retro reflective plates, currently used in Manitoba Licence Plates.	
35.	The camera lenses shall be interchangeable. Depending on the location, it may be necessary to use lenses ranging from 45mm with a viewing angle of 42° to 150mm with a viewing angle of 12°. All lenses shall be fixed focus.	
36.	 The camera unit shall be connected to the traffic signal controller to obtain the following: a) Contact closure of signal when traffic lights enter the amber phase; b) Contact closure of signal when traffic light enters the red phase; c) Monitor and display on LCD panel the number of seconds in which the signal has been in the amber and red phase; d) Power Source (110V AC). 	
	The interface between the camera unit and the traffic signal equipment shall be coupled so that there is no interference with the operation of the traffic signal equipment. Power and signal phase current shall be fused at a rating no higher than 10 amps.	
37.	 The camera unit shall allow for on-site adjustment of camera activation. At a minimum, on-site adjustment shall be allowed for: a) User to specify the delay time in tenths of a second; b) User to specify the time-distance interval between first and second violation image; c) The date, day and time; d) The minimum speed needed to activate camera in 1 km/h increments; e) The distance between loops; and 	
	f) Timer operation for automatic on/off activation.	
38.	Two images shall be taken for each violation recorded by the system. The time-distance interval of exposure between the two images taken to record a violation shall be adjustable in tenths of a second. Adjustment shall be on-site. Units that require firmware (e-prom) or software changes for adjustment are <u>not</u> acceptable.	
39.	The system shall be capable of monitoring no less than four (4) violations per each red phase.	
40.	The camera unit shall be capable of counting the number of violations and traffic volumes. Traffic volumes must be counted by lane and for speed sensitive systems no less than two lanes of operation.	
41.	The camera shall provide the capability to calculate and monitor vehicle speed, so that violations may be recorded only when vehicles have entered the detection zone during the red light and are exceeding a user specified minimum speed. The minimum speed shall be adjustable to the nearest kilometer per hour within a range of zero to 50 km/h.	
42.	The camera unit must be capable of photographing violations at a rate of no less than 2 frames per second.	

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43.	The camera unit shall be designed so that malfunctions can be easily	
_	identified and debugged and shall:	
	a) Perform self-test on the photographic unit and flash;	
	b) Simulate a violation being recorded for testing;	
	 c) Provide warning lights and error messages for selected malfunctions; 	
	and	
	d) Record date and time of camera shutdown in the event of a	
	,	
1.4	malfunction or when image storage runs out. The camera unit shall be designed so that service personnel without	
44.		
	specialized equipment can easily change the memory storage unit and	
	verify that the memory storage unit has been correctly installed in the	
	camera.	
45.	The camera unit shall be designed so that service personnel without	
	specialized equipment can easily perform the following functions on the	
	street.	
	a) Setting the day, date, and time (24 hour clock);	
	b) Adjust the minimum speed for recording violation;	
	c) Adjust for the delay time, or number of elapsed seconds (in tenths of	
	a second) since light has turned red before violation is recorded;	
	d) Adjust for the time-distance interval, or number of elapsed seconds	
	(in tenths of a second) between the first and second image for a	
	recorded violation;	
	e) Set the location code. Allow for a minimum of four (4) spaces for a	
	numeric location identification number;	
	f) Setting for the number of hours of operation for each day of the	
	week;	
	g) Setting of "sleep time" for operation on a timer;	
	 h) Initialize the traffic count; and 	
	i) Perform on-site system test including test image.	
46.	The camera unit shall use a one-time use digital image memory hard	
40.	drive, flash stick or card and:	
	a) Maximum megapixels available for high resolution images (bidder to	
	provide details);	
	b) Save images in a JPEG or TIF format; and	
	c) Sufficient memory to record no less than 400 violations per memory	
	medium. (800 images).	<u> </u>
47.	Camera unit shall save colour images.	
48.	The memory medium shall be coupled to the camera unit and easily	
	removed for daylight loading and unloading.	
49.	The data must be superimposed onto the image simultaneously with the	
	exposure of the violation image.	
	Systems that print or append the data to the image after the violation has	
	occurred are not acceptable.	
50.	The data box shall contain the following data information for each	
	violation sequence:	
	a) Violation number;	
	b) Date (MM/DD/YY) or (DD/MM/YY);	
	c) Time (24 hour clock);	
	 d) Direction or lane in which violation occurred; 	
	,	
	 e) Number of seconds amber aspect displayed; f) Number of accords red aspect displayed; 	
	f) Number of seconds red aspect displayed;	
	g) Location code; and	
	h) Vehicle speed.	
	Certain data elements may only be necessary on one of the two-image	
	violation.	<u> </u>
51.	The system shall be capable of performing a self-test on the street. Self-	
	testing shall be done during the green phase and recorded in the data	
	box.	

52.	At a minimum, the data recorded on the self-test shall include the	
	following:	
	a) Date;	
	b) Time (24 hour clock);	
	c) The designation of "Test" or "TST";	
	d) The lane or direction of the test;	
	e) The pitch or loop distance for speed sensitivity;	
	f) The velocity of the vehicle captured in the test image;	
	g) The time-distance interval selected;	
	h) The delay time selected;	
	i) Whether front or rear detection has been selected.	
53.	At a minimum the data retained for each registration on the memory card	
	shall include the information outlined in Items 50 & 52.	
54.	The camera system shall use a memory card capable of retaining a	
	minimum of 6000 registrations.	
55.	At a minimum the data retained for each registration on the memory card	
	shall include the information outlined in Items 50 & 52.	
56.	The information recorded on the Memory Card shall be easily	
	downloadable to a PC-Compatible computer for statistical evaluation.	
	ASH UNIT	
57.	The flash unit shall be fully integrated into the camera unit so as to be	
	part of a single camera system, allowing for easy relocation of a single	
	piece system. A flash that is independent of the camera is not	
	acceptable.	
58.	The flash unit shall be capable of providing adequate illumination for	
	photographic violations under all light and weather conditions:	
	a) For an area of up to a minimum of three (3) traffic lanes or	
	approximately 35 feet wide at a distance of up to 150 feet;	
	b) At varying levels of ambient light conditions; and	
	c) For both the first and second violation images.	
59.	The flash unit shall be synchronized to the camera shutter at 1/1000 of a second	
60.	The flash shall be capable of operation in the following modes:	
00.	a) Automatic – Flash activated when ambient light conditions dictate via	
	photoelectric cell; and	
	b) Manual – Flash activated for all images, no matter what ambient light	
	conditions are present.	
61.	Flash intensity shall be selectable on the street with a maximum intensity	
	of 200 W/s.	
	At a minimum, the flash shall allow for three (3) selections (High,	
	Medium, Low) the highest not to exceed 200 W/s.	
62.	At certain locations additional flash units may be necessary to provide	
	adequate illumination for photographing violations. In such cases the	
	primary flash via a wired RF or infrared sync impulse shall activate the	
	secondary flash.	
63.	The flash shall be of full flash within 0.5 seconds of a previous discharge.	
64.	The flash must have a second flash of higher or equal intensity than the	
	first flash.	
VEHICL	E DETECTION SYSTEM	·
65.	Digital Inductive loop detectors shall be used for vehicle detection. The	
	loop detectors shall have the following features:	
	a) Automatic self-tuning;	
	b) Self-Adjusting;	
	c) Automatic recovery outputs;	
	d) Four (4) channel outputs;	
	e) Individual pitch setting for each monitored lane; and	
	f) Must be able to recognize individual vehicle profile as part of the	
	process for speed determination to ensure accurate vehicle	
	identification.	

66.	The digital loop detector shall be incorporated into the one-piece camera		
	unit to allow for easy relocation between enforcement sites.		
67.	The digital loop detector control unit shall be installed to allow service		
	personnel to easily initialize and adjust detector setting on the street.		
68.	No more than two (2) loops are to be installed per each lane and/or		
	direction.		
69.	The digital detector shall be capable of proper detection of vehicles with		
	loop distances (center – center) between 2.0 to 5.0 meters.		
70.	The detector system must be direction sensitive.		
71.	The detector system must be speed sensitive.		
	SUPPLY	1	
72.	The system shall operate under a main power supply voltage of 115V AC (10%) and 60 Hz (2%).		
73.	Backup power shall be provided so that the system clock and other data		
	elements displayed on the image are maintained for a minimum of seven		
	(7) days in the event of a main power supply failure.		
74.	The system power supply shall be protected by fuse or breaker rated at		
	no more than 10 amps.		
75.	The system shall incorporate summons-processing software used for		
	issuing summonses for speeding offences. List at least three (3)		
	separate jurisdictions in North America including contacts and date of		
	operation, where the proposed summons-processing system has been		
	operated to enforce photo enforcement-evidenced traffic violations.		
	DIGITAL PHOTO RADAR REQUIREMENTS	5	
76.	The photo radar enforcement system has been successfully installed		
	and operated at no less than three (3) different geographic locations with		
	climatic conditions similar to the City of Winnipeg. Provide		
	documentation including contacts and date of operation.		
77.	The system incorporates summons-processing software used for issuing		
	summonses for speeding offences. List at least three (3) separate		
	jurisdictions in North America including contacts and date of operation,		
	where the proposed summons-processing system has been operated to		
	enforce photo enforcement-evidenced traffic violations.		
FUNCTI	ONAL REQUIREMENTS		
78.	Photo Radar system shall include ten (10) vehicles and one (1) spare		
	vehicle wired to support the Photo Radar equipment, at least two (2) of		
	these vehicles must be permanently equipped with both a front and rear		
	system to allow for the vehicle to be deployed with the option of using		
	either method. Vehicles shall be newer models, within three (3) years of		
	the current model year, in a variety of non-descript styles and makes as		
	approved by the Contract Administrator.		
79.	Bidders shall provide Image and data security procedures along with		
	Continuity of Evidence procedures for the digital systems regarding		
	Photo Radar. Further, the information provided, shall be sufficient to		
	prove to a Court of law that the electronic image is in its original format		
	and has not been altered, changed, amended or tampered with, in any		
	way, whatsoever. Bidders shall include information such as electronic		
	data integrity and security including but not limited to encryption, secure		
	interconnects, file storage and data compression		
80.	The system shall be capable of identifying vehicles traveling through a		
	radar beam, and taking an image of each vehicle traveling in excess of a		
	predetermined speed threshold.		

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81.	The system shall be capable of operation and record violations at all	
•	times of the day and night, during all seasons, and under varying	
	conditions of sunlight and shadowing. The image shall incorporate the	
	following views:	
	a) View of the rear of the vehicle;	
	b) Characters and numbers on reflectorized and non-reflectorized	
	license plates; and	
	c) Superimposed Data Information.	
82.	The camera must record the visual image at a suitable distance from the	
	enforcement vehicle. The Image shall contain all objects within the area	
	of the camera's view, including;	
	a) The vehicle, if present, positioned on the roadway; and	
	b) The vehicle's rear license plate displaying the alphanumeric	
	characters unique to each license plate.	
	The Image must be able to be printed to sufficient resolution such that	
	all the above elements are clearly identifiable.	
83.	The system shall be fully suitable and functional for use under all	
	weather conditions and must have been tested to a minimal temperature	
	of (-30° C).	
84.	The system shall be easy to install, as well as service and maintain on a	
07.	daily basis.	
85.	The Photo Radar unit may be constructed in a component configuration	+ +
00.	so that each component is separate from the other. At a minimum the	
	component units must include the following:	
	a) Camera Unit;	
	b) Control Unit;	
	c) Antenna Unit;	
	d) Flash Unit;	
	e) Energy Box or Power Unit.	
86.	The proposed photo radar system is CSA certified or equivalent. (Please	
	submit documentation if applicable)	
87.	The Contractor shall take all reasonable steps to obtain CSA certification	
	or equivalent for all products being used under this Contract.	
THE RA	DAR CONTROL UNIT	
88.	The radar control unit shall be constructed as a single ruggedized	
	component.	
89.	The radar control unit shall have individual buttons used for the following	
	specific functions:	
	a) On/Off Button;	
	b) Direction Switch;	
	c) Radar Range Switch;	
	d) Speed Threshold Inputs in 1 km/h increments; and	
	e) Test Button.	
90.	The radar control unit shall have a LCD, or equivalent, window in which	
90.		
01	the speed of each passing vehicle is displayed.	
91.	The radar control unit shall allow for direction setting by the use of easily	
	accessed, adjustable, system. Directions setting must allow for the	
	following options:	
	a) Approaching traffic;	
	b) Receding traffic; and	
	c) Simultaneous detection of both approaching and receding traffic.	
92.	Range setting must be easily adjustable for the following ranges:	
	a) Low - Up to 2 lanes;	
	b) High - Up to 4 lanes.	
93.	The radar control unit shall allow the operator to enter the minimum	
-	speed threshold at which a violation will be detected and photographed.	
	Threshold setting shall be in increments of 1 km/h.	
94.	The radar control unit must allow for Digital Signal Processing of	
	reflective radar signal.	
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95.	All software needed to control the radar system and calculate the speed of vehicle in the beam must be incorporated into the control unit. All software must reside in the firmware (e-prom) of the control unit. DSP software cannot be downloadable to the control unit.	
96.	The radar control unit shall have a single test button that when activated will initiate a test sequence which will test the control unit, radar, camera as well as all associated software and connections. The activation of the test button will result in an image to verify that the operator had performed the test sequence.	
	The Unit shall be provided with a built-in test signal to simulate a measurement. The test signal shall be independent of the measuring circuit, and shall be capable of measuring the function and accuracy of all circuits from the sensor input or radar head. The test signal may operate automatically when the equipment is switched on, but it shall also be available for manual operation (test button). When the test signal operates a camera the image shall clearly show that the test signal has been generated	
	 At a minimum, the data recorded on the self-test image shall include the following: a) Date; b) Time (24 hour clock); c) The designation of "Test" or "TST"; and 	
	d) Patrol Vehicle Speed.	
97.	In the event that a test sequence is not properly completed, the unit will not be capable of proceeding to the enforcement stage. A series of error messages must be displayed to inform the operator of the problem with the unit.	
98.	The control unit shall have a LED, or equivalent, indicator displaying the battery power level.	
99.	The control unit must possess the capability of generating an audio Doppler tone.	
100.	The audio Doppler tone must have the capabilities of volume control.	
101.	Power Supply 12V DC (10.8 - 15V DC)	
102.	The control unit must be fused to prevent any damage to the electronic components and sub system in the event of any power surge and/or cross wiring	
THE CA	MERA UNIT	
103.	The camera unit shall provide high-resolution images of the vehicle	
	making the violation. The images shall be recorded on a digital memory medium. (ie. hard drive, flash stick or card) for the digital system.	
104.	The system is not based on the use of video cameras that record images on magnetic media or via frame grabbing hardware and software	
105.	The operation of the camera shall be microprocessor controlled and fully automatic.	
106.	 The camera unit shall use a one-time use digital image memory hard drive, flash stick or card for the digital system and: a) Maximum megapixels available for high resolution images (bidder to provide details); b) Save images in a JPEG or TIF format; and c) Sufficient memory to record no less than 400 violations per memory medium. (400 images). 	
107.	Camera unit saves colour images.	
108.	The digital image memory medium shall be coupled to the camera unit and easily removed for daylight removal and replacement.	
109. 1	The camera unit shall provide for placement of filters in front of the camera lens, and the flash unit. This is in order to compensate for Retro reflective plates, currently used in Manitoba Licence Plates.	

110.	The camera unit shall be synchronized with a flash unit at. 1/1000 of a second. The flash unit must have the ability to be used in either manual	
	or automatic modes	
111. 1	The camera unit shall record data information pertinent to each violation in a clear, concise fashion that will not interfere, in any manner, with the	
	photo image.	
112.	The data must be superimposed onto the image simultaneously with the exposure of the violation image.	
	Systems that print or append the data to the image after the violation has occurred are <u>not</u> acceptable.	
113.	The data box shall contain the following data information for each	
-	violation sequence:	
	a) Date (MM/DD/YY) or (DD/MM/YY);	
	b) Time (24-hour clock);	
	c) Direction of travel (approaching or receding);	
	d) Patrol Vehicle Speed;	
	e) Offenders Overtaking Speed;	
	f) Total Violation Speed;	
	g) Image sequence number;	
	h) Officers I.D. Number; and	
	i) Location Code.	
114.	The camera unit must be capable of photographing violations at a rate of no less than 2 frames per second.	
115.	The camera lenses shall be interchangeable. Depending on the	
-	location, it may be necessary to use lenses ranging from 45 mm with a	
	viewing angle of 42° to 150 mm with a viewing angle of 12°. All lenses	
	shall be fixed focus.	
116.	The camera lens shall be of a fixed focus design.	
117.	The camera unit shall possess a memory card capable of retaining a	
	minimum of 6000 registrations.	
118.	At a minimum the data retained for each registration on the memory card shall include the information outlined in Item 113.	
119.	The information recorded on the Memory Card shall be easily	
	downloadable to a PC-Compatible computer for statistical evaluation.	
120.	The Camera unit shall possess a LCD, or equivalent, display allowing	
	the officer to view the following:	
	a) Date;	
	b) Time;	
	c) Frame Number or Image Number; and	
	d) Speed of last vehicle.	
121.	All alphanumeric changes to the camera unit shall be accessible to the	
	user in a simple, straightforward manner. Data entry must be prompted	
	via a menu driven configuration displayed on the cameras LCD, or	
	equivalent, display.	
122. 1	The camera unit and associate components must be separately fused to	
	prevent electric damage in the event of power surges and/or cross	
	wiring.	
THE RAI	DAR ĂNTENNA	•
123.	The radar antenna shall be constructed as a single ruggedized unit.	
124. 1	The radar antenna must be mounted outside of the passenger	
	compartment.	
125.	The radar antenna must be of a slotted wave guide design, projecting a	
	beam across the road.	
126.	The radar antenna must project a narrow beam across the road at a 20°	
	angle to the flow of traffic (+/- 2°).	
127.	The antenna must be mounted at right angle to the flow of traffic. The	
	20° angle of the cross-the-road beam must be created by the antenna.	
	Systems that require that the antenna point at the prescribed angle	
	across the road are not permitted.	

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128.	The radar antenna must be an approved model and listed on the		
120.	International Association of Chiefs of Police (IACP) Conforming Product		
	List. Must meet all requirements of the Speed Measuring Device		
	Performance Specifications: Across-the-Road Radar Module as adopted		
	and published by Highway Safety Committee of the IACP.		
129.	The radar unit must have an approved speed measuring range of 20 -		
	240 km/h.		
130.	The radar antenna must be capable of operation at temperatures as low		
	as - 30° C.		
131.	The radar unit must conform to radiation standards in Canada. (Provide		
131.			
100	documentation).		
132.	The radar unit must transmit at a power level no higher than 2mw.		
133.	The radar antenna must be capable of monitoring traffic from either side of the road.		
134.	Power supply 12V DC (10.8 - 15V DC).		
	SH UNIT		
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135.	The flash unit should be composed of two components. A flash		
	generator and a flash head.		
136.	The flash head must be fully weather proof and mounted outside of the		
	passenger compartment, capable of operation at -30°C.		
137.	The flash bulb (strobe) shall have a life expectancy of no less than		
	50,000 flashes.		
138.	The flash bulb shall be protected from overheating in the event of		
150.			
100	multiple discharges within a short period of time.		
139.	The flash unit shall be capable of providing adequate illumination for		
	photographic violations under all light and weather conditions:		
	 For an area of up to four traffic lanes; and 		
	b) At varying levels of ambient light conditions.		
140.	The flash unit shall be synchronized to the camera shutter at a minimum		
	of 1/1000 of a second.		
141.	The flash shall be capable of operation in the following mode(s):		
141.	a) Automatic - Flash activated when ambient light conditions dictate via		
	photoelectric cell; and		
	b) Manual - Flash activated for all images, no matter what ambient light		
	conditions are present.		
142.	Flash intensity shall be selectable on the street with a maximum		
	intensity of 300 W/s. At a minimum, the flash shall allow for two (2)		
ſ	selections (High & Low) the highest not to exceed 300 W/s.		
143.	The flash must be fully rechargeable within 0.5 seconds of a previous		
	discharge.		
144.	The flash generator must possess a "test" button to allow the operator to	<u> </u>	
144.	test the flash without the use of the camera.		
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145.	The flash generator must be powered by no more than 12V with a		
	current draw of no more than 30A.		
POWER		·	
146.	Power to the radar system must be provided by means of a		
ſ	rechargeable external power source. Systems that require the use of		
ſ	the vehicles electrical system to power the Photo Radar unit are not		
l			
l l	permitted.		
147	permitted. The rechargeable power supply must at a minimum contain the		
147.	The rechargeable power supply must, at a minimum contain the		
147.	The rechargeable power supply must, at a minimum contain the following:		
147.	The rechargeable power supply must, at a minimum contain the following: a) A rugged leak proof plastic housing;		
147.	 The rechargeable power supply must, at a minimum contain the following: a) A rugged leak proof plastic housing; b) A trickle charger operable at 110 V AC (60Hz); 		
147.	 The rechargeable power supply must, at a minimum contain the following: a) A rugged leak proof plastic housing; b) A trickle charger operable at 110 V AC (60Hz); c) Amphenol type output sockets to connect to the Photo Radar 		
147.	 The rechargeable power supply must, at a minimum contain the following: a) A rugged leak proof plastic housing; b) A trickle charger operable at 110 V AC (60Hz); c) Amphenol type output sockets to connect to the Photo Radar system. The outputs must be protected against cross connection; 		
147.	 The rechargeable power supply must, at a minimum contain the following: a) A rugged leak proof plastic housing; b) A trickle charger operable at 110 V AC (60Hz); c) Amphenol type output sockets to connect to the Photo Radar 		
147.	 The rechargeable power supply must, at a minimum contain the following: a) A rugged leak proof plastic housing; b) A trickle charger operable at 110 V AC (60Hz); c) Amphenol type output sockets to connect to the Photo Radar system. The outputs must be protected against cross connection; 		

148.	The internal batteries of the power supply pack shall be sealed lead acid types with power ratings of 12V, 26 Ah.	
149.	The power pack shall be fused to protect the Photo Radar unit, and the charger unit from any cross wiring and or power surges.	
150.	The power pack must not allow for the operation of the Photo Radar unit while it is being recharged.	
	DIGITAL PHOTO LASER SYSTEM	
151.	The system incorporates summons-processing software used for issuing	
	summonses for speeding offences.	
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152.	The system will consist of four operational digital photo laser systems	
	and one spare. These devices shall be portable and must be listed on	
	the IACP Conforming Products List. The Photo Laser systems shall be	
	capable of being mounted in the photo enforcement vehicle fleet as outlined in Item 78.	
153.	Bidders shall provide Image and data security procedures along with	
155.	Continuity of Evidence procedures for the digital systems regarding	
	Photo Laser. Further, the information provided, shall be sufficient to	
	prove to a Court of law that the electronic image is in its original format	
	and has not been altered, changed, amended or tampered with, in any	
	way, whatsoever. Bidders shall include information such as electronic	
	data integrity and security including but not limited to encryption, secure	
	interconnects, file storage and data compression.	
154.	The system shall be capable of identifying vehicles tracked by a laser	
	beam, and taking an image of each vehicle traveling in excess of a	
	predetermined speed threshold.	
155.	The system shall have the capability to be powered by a vehicle's 12	
	volt power system.	
156.	The system shall allow for a minimum speed threshold at which a	
	violation will be detected and photographed. Threshold setting shall be	
457	in increments of 1 km/h.	
157.	The system shall be capable of operation during all seasons and shall record violations during times when ambient light is sufficient to capture	
	images. The image shall incorporate the following views:	
	a) View of the rear of the vehicle;	
	b) Characters and numbers on reflectorized and non-reflectorized	
	license plates; and	
	c) Superimposed Data Information.	
158.	The camera must record the visual image at a suitable distance from the	
	enforcement vehicle. The Image shall contain all objects within the area	
	of the camera's view, including;	
	a) The vehicle, if present, positioned on the roadway; and	
	b) The vehicle's rear license plate displaying the alphanumeric	
	characters unique to each license plate.	
	The Image must be able to be printed to sufficient resolution such that	
450	all the above elements are clearly identifiable.	
159.	The system shall be fully suitable and functional for use under all	
	weather conditions and must have been tested to a minimal temperature	
160	of -30° C.	
160.	The system shall be easy to set up, as well as service and maintain on a daily basis.	
161.	The system shall be constructed in a component configuration so that	
	each component is separate from the other. At a minimum the	
	component units must include the following:	
	a) Laser Device with integrated high resolution camera;	
	b) Tablet Computer or equivalent;	
	c) Vehicle Mounting Hardware.	1

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162.	The system is CSA certified or equivalent. (Please submit	
	documentation if applicable)	
163.	The Contractor shall take all reasonable steps to obtain CSA certification	
	or equivalent for all products being used under this Contract.	
THE LAS	SER DEVICE WITH INTEGRATED HIGH RESOLUTION CAMERA	
164.	The Laser Device with integrated high resolution camera shall be	
	constructed as a single ruggedized component.	
165.	The Laser Device with integrated high resolution camera shall have, at a	
	minimum, individual buttons used for the following specific functions:	
	a) On/Off;	
	b) Direction;	
	c) Mode; Speed/Range;	
	d) Display Intensity; and	
	e) Self-Test;	
	f) Menu Edit.	
166.	The Laser Device with integrated high resolution camera shall have a	
	LCD, or equivalent, window in which the speed and distance of each	
	targeted vehicle is displayed.	
167.	The Laser Device with integrated high resolution camera shall allow for	
	direction setting by the use of easily accessed, adjustable, system.	
	Directions setting must allow for the following options:	
	a) Approaching traffic;	
	b) Receding traffic; and	
400	c) Simultaneous detection of both approaching and receding traffic.	
168.	The Laser Device with integrated high resolution camera shall allow for	
	speed threshold settings at which a violation will be detected and	
400	photographed. Threshold setting shall be in increments of 1 km/h.	
169.	The laser device with integrated high resolution camera must allow for Digital Signal Processing of reflected laser beam.	
170.	Laser device with integrated high resolution camera shall have the	
170.	ability to perform the following tests;	
	a) A scope alignment test	
	b) Fixed distance, zero velocity test	
	c) Self-test or Internal Diagnostic test	
171.	In the event that a test sequence is not properly completed, the laser	
	device with integrated high resolution camera, will not be able to	
	proceed to the enforcement stage. A series of error messages must be	
	displayed to inform the operator of the problem with the unit.	
172.	The control unit shall have a LCD, or equivalent, indicator displaying the	
	battery power level.	
173.	When powered by the vehicle's 12 v system the laser device with	
	integrated high resolution camera shall be fused to prevent any damage	
	to the electronic components and sub system in the event of any power	
	surge and/or cross wiring	
174.	The laser device with integrated high resolution camera shall provide	
	high-resolution images of the vehicle making the violation. The images	
	shall be recorded on a digital memory medium. (ie. hard drive, flash stick	
	or card) for the digital system.	
175.	The operation of the laser device with integrated high resolution camera	
	shall be microprocessor controlled and fully automatic.	
176.	The laser device with integrated high resolution camera shall use a one-	
	time use digital image memory hard drive, flash stick or card for the	
	digital system and:	
	a) Maximum megapixels available for high resolution images (bidder to	
	provide details);	
	b) Save images in a JPEG or TIF format; and	
	c) Sufficient memory to record no less than 400 violations per memory	
	medium. (400 images).	

177.	Laser device with integrated high resolution camera saves colour images.	
178. 1	The laser device with integrated high resolution camera shall provide for placement of filters in front of the camera lens to facilitate a clear image capture through automotive glass.	
179. 1	The laser device with integrated high resolution camera shall record data information pertinent to each violation in a clear, concise fashion that will not interfere, in any manner, with the photo image.	
180.	The data must be superimposed onto the image simultaneously with the exposure of the violation image. Systems that print or append the data to the image after the violation has occurred are <u>not</u> acceptable.	
181.	All software needed to control the laser device with integrated high resolution camera and calculate the speed and distance of a vehicle in the beam must be incorporated into the laser device with integrated high resolution camera. All software must reside in the firmware (e-prom) of the control unit. DSP software cannot be downloadable to the laser device with integrated high resolution camera.	
182.	 The data box shall contain the following data information for each violation sequence: a) Date (MM/DD/YY) or (DD/MM/YY); b) Time (24-hour clock); c) Direction of travel (approaching or receding); d) Total Violation Speed; e) Violation Number or image sequence number; f) Officers I.D. Number; and 	
400	g) Location Code.	
183.	The camera lens shall be of a fixed focus design.	
	BLET OR EQUIVALENT	
184.	The Tablet or equivalent shall be rugged in construction and capable of being used outdoors in all seasons and weather conditions.	
185.	 The Tablet or equivalent shall have, at a minimum, a) 1.6 Ghz processor b) 2 GB DDR2 Ram c) 50 GB solid state hard drive d) 7" 1024x600 resolution TFT LCD or equivalent display that is readable in sunlight e) Be powered by a swappable Lithium Ion battery, capable of extended use f) be compatible with the laser device with integrated high resolution camera 	
186.	The software contained within the tablet, or equivalent, shall be capable of integrating with the laser device with integrated high resolution camera.	
187.	The information recorded on the tablet, or equivalent, shall be easily downloadable to a PC compatible computer in a Microsoft compatible format for statistical evaluation and violation processing.	
188.	The tablet, or equivalent, shall have the ability to display an image of the violating vehicle allowing the operator to view information in accordance with Item 182.	
189.	The tablet, or equivalent, shall allow the operator to make alpha numeric changes. Data entry shall be prompted via a menu with unique individual operator password protection.	

	OFFENCE PROCESSING REQUIREMENTS	
190.	The Contractor shall maintain and operate a Permanent Offence	
	Processing Centre in Winnipeg, Manitoba. The Offence Processing	
	Centre shall:	
	a) Be located on a Winnipeg Transit route;	
	b) Have sufficient parking, with electrical plug-ins, available for all	
	Photo Radar/Laser operators, including during shift overlap hours,	
	as well as for five (5) Winnipeg Police Service personnel;	
	 Have semi-enclosed work stations or offices with computers, supplies and furnishings for five (5) Winnipeg Police Service 	
	personnel, with the ability to expand;	
	d) In addition to c) above, have, at a minimum, one (1) fully enclosed	
	office which can be locked and secured, for the Contract	
	Administrator. The office to include computer, printer, fax machine,	
	supplies and furnishings;	
	e) Have sufficient work stations with computer, supplies and	
	furnishings for Photo Radar/Laser operators' verification of offence	
	notice duties. One of these stations will also be utilized as the Photo	
	Radar/Laser supervisor's area;	
	f) Have a meeting/training room with furnishings suitable to	
	accommodate at least ten persons at a time;	
	g) Have a lunchroom/breakroom area complete with, at a minimum, a	
	microwave oven, refrigerator, kitchen sink, tables, chairs and appropriate washroom facilities.	
	h) Have suitable locker storage for two (2) Winnipeg Police Service	
	personnel (full size lockers or equal) and for all Photo Radar/Laser	
	operators (half size lockers);	
	i) Have suitable space to accommodate the Photo Radar/Laser	
	operators prior to, during and after prescribed shifts, (ie. shift overlap	
	periods, after-hours access to washrooms, break/lunchroom and	
	secured cabinets for evidence storage purposes etc.)	
	*Bidders shall include, with their proposal submission, a list of	
	locations(s) and floor plan(s) of the proposed building/office space. In	
	addition the proposal shall also include the manpower requirements of	
	the Contractor for all processing as well as equipment maintenance and testing as required.	
191.	Hours of operation required of the processing Centre shall be a	
101.	minimum of 8:30 a.m. till 4:30 p.m. on Business Days.	
192.	The Contractor shall provide a Program Manager who will be the over-all	
	supervisor for the Offence Processing Centre during regular business	
	hours or as approved by the Contract Administrator.	
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GENED	AL REQUIREMENTS
193.	The Contractor shall process Offence Notices in accordance with the
	applicable legislation by:
	a) Processing data and images of offences;
	b) Obtaining vehicle registered owner information;
	c) Preparing Offence Notices;
	d) Filing Offence Notices with The Winnipeg Police Service and the
	Courts;
	e) Sending Offence Notices; and
	f) Providing evidence required by the Courts. Must be in machine
	readable format.
	The applicable legislation links are:
	The Highway Traffic Act (Manitoba)
	http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php
	 The Related Image Capturing Enforcement Regulations
	http://web2.gov.mb.ca/laws/regs/pdf/h060-220.02.pdf
	 The Summary Convictions Act (Manitoba)
	http://web2.gov.mb.ca/laws/statutes/ccsm/s230e.php
	The Manitoba Public Insurance Corporation Act
	http://web2.gov.mb.ca/laws/statutes/ccsm/p215e.php
194.	The Contractor shall process all collected data from the Intersection
_	Safety Camera and Photo Radar/Laser Systems, whether related to an
	offence or not, for analysis and management purposes. The Contractor
	shall be required to retain the original captured images on the original
	medium, for evidentiary purposes for a minimum of seven (7) years and
	cannot be disposed without the prior approval of the Contract
	Administrator.
195.	The Contractor shall provide an Offence Processing System and
	procedures which shall:
	a) Process and record all Images related to offences and all collected
	data, whether related to an offence or not;
	b) Ensure that Offence Notices are produced when and only when the
	data, the images and the circumstances meet all specified
	requirements;
	c) Obtain vehicle registered owner information electronically;
	d) Prepare Offence Notices electronically;
	e) File Offence Notices with The Winnipeg Police Service and the
	Courts electronically;
	f) Send hard copy Offence Notices by mail and document for each
	Offence Notice:
	I. when it was created;
	II. when it was filed with The Winnipeg Police Service and the
	Courts
	III. when and where it was mailed and who performed the task;
	and
	g) Generate Court Packages as specified in Items 213 and 216;
	h) Interface with The Winnipeg Police Service and Courts as identified
	in Items 210, 211 and 212;
	i) Manage all images and collected data, and information regarding
	offence processing;
	j) Generate management and statistical reports; and
	k) Information must be made available via the Contractor's data base
	or thru a depository. The Contractor shall not be permitted direct
	access to Manitoba Justice System.
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196.	The Contractor shall supply The Winnipeg Police Service with	
	operational policies and procedure manuals that will be followed by	
	personnel for the Intersection Safety Camera, Photo Radar/Laser, and	
	Offence Processing Systems. The Winnipeg Police Service and Courts	
	must approve policies and procedure manuals prior to the	
	implementation of the Intersection Safety Camera and Photo	
	Radar/Laser Systems	
METRIC		
197.		
197.		
DDOOC	indicating measurements, e.g., Speed and distance.	
198.	The Contractor shall operate a permanent offence processing centre as	
	per Item 190, located within the City of Winnipeg and shall be fully	
	operational within one hundred (100) Calendar Days of award of	
	Contract.	
199.	The Contractor shall, within thirty (30) Calendar Days of award of	
	Contract, prior to the establishment of a permanent processing center in	
	Winnipeg, be able to process and issue summonses for all listed	
	offences in accordance with item 193. During the period of time that the	
	remote offence processing centre is utilized, prior to the establishment of	
	the permanent offence processing centre, secure indoor heated parking	
	for the Photo Radar vehicles will be required with suitable parking	
	facilities for the photo radar operators.	
200.	The Contractor shall provide a heated, indoor, secure parking facility	
	within or adjacent to the permanent offence processing centre for all	
	Photo Radar/Laser vehicles and one (1) Winnipeg Police Service (WPS)	
	vehicle.	
OFFENO	CE PROCESSING – GENERAL	
201.	The Contractor shall process the digital medium and all collected data	
	related to each offence, whether related to an offence or not.	
202.	The Contractor shall send an Offence Notice for an Intersection Safety	
	Camera offence for red light Violation when and only when:	
	a) Both of the two (2) images of the offence clearly display;	
	I. the rear of the offending vehicle;	
	II. at least one traffic control signal displaying the red light being	
	disobeyed;	
	III. a legible data section showing all required data.	
	b) At least one of the two (2) images of the offence clearly displays;	
	I. a legible license plate;	
	II. a legible data section showing all required data (the vehicle	
	speed may be only on one image and the location code may	
	be only on one image)	
	c) The Intersection Safety Camera System passed all aspects of the	
	last test before and the first test after the offence;	
	d) It has been verified that no specified exemptions apply; and	
	e) It has been issued by, and bears the signature of, the authorized	
	Special Constable.	
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203.	The Contractor shall send an Offence Notice for an Intersection Safety
200.	Camera offence for a Speeding Violation when and only when:
	a) Both of the two (2) images of the offence clearly display;
	I. the rear of the offending vehicle;
	II. at least one traffic control signal is displayed showing the light
	phase; and
	III. a legible data section showing all required data.
	b) At least one of the two (2) images of the offence clearly displays
	I. a legible license plate;
	II. a legible data section showing all required data (the vehicle
	speed may be only on one image and the location code may
	be only on one image);
	c) the Intersection Safety Camera System passed all aspects of the last
	test before and the first test after the offence;
	d) it has been verified that no specified exemptions apply; and
	e) It has been issued by, and bears the signature of, the authorized
	Special Constable.
204.	The Contractor shall send an Offence Notice for a Photo Radar/Laser
	offence when and only when:
	a) The images of the offence clearly display:
	I. the rear of the offending vehicle;
	II. legible data section showing all required data; and
	III. a legible license plate.
	b) it has been verified that no specified exemptions apply; and
	c) It has been issued by, and bears the signature of, the authorized
	Special Constable.
VEHICL	E REGISTERED OWNER INFORMATION
205.	The Contractor shall obtain vehicle registered owner information
200.	electronically from Manitoba Public Insurance (MPI). The Contractor shall
	bear any costs incurred to access information. The Contractor shall be
	responsible to satisfy MPI that the requirements respecting Disclosure of
	Motor Vehicle Registration Information can be met and all proper safety
	encryption for information exchange over the Internet can be complied
	with.
	The transport or transmission of any personal information across
	international boundaries is strictly prohibited.
OFFENC	
206.	The Offence Notice shall:
	a) Be printed on the form approved by the Province of Manitoba;
	b) Be filed with The Winnipeg Police Service and the Courts
	electronically prior to issuance to the registered owner of the vehicle;
	and
	c) Be sent to the registered owner of the vehicle as Standard Letter
	Mail with Canada Post, post marked within fourteen (14) Calendar
	days of the offence.
207.	The Contractor shall not include any attachments or enclosures with the
-	mailed Offence Notice without the prior approval of the Contract
	Administrator.
THE WIN	INIPEG POLICE SERVICE AND COURTS INTERFACE
208.	The Offence Processing System will be in electronic format with the
	Winnipeg Police Service and the Courts. Appropriate systems will be
	created by the Contractor for communication between the Police, Courts
	and the Contractor. Software applications will be reviewed and
	approved by the information management representatives of the
	Winnipeg Police Service and the Courts.

209.	The Offence Processing Police and Courts Interface shall;	
	a) Be capable of communicating between the Contractor, the Police	
	and the Courts to electronically exchange information;	
	, , , ,	
	Police if they are placed within those offices;	
	c) Allow the Provincial Courts to amend and print files applicable to	
	the Court process; and	
	d) Allow the Police to view all information regarding their jurisdictional	
	files and print information and reports as required.	
210.	The Contractor shall provide, depending upon options available for	
	interfacing with the Provincial Courts;	
	a) Two (2) stand-alone Personal Computers (PCs) and one (1) printer	
	in the Winnipeg Court	
	b) An approved equal or alternative	
	The Bidder shall provide an itemized list of the equipment proposed.	
211.	The software used for the Offence Processing System should be	
211.		
	developed and have been in use for a minimum of three (3) years. The	
	Bidder shall provide references.	
212.	The Bidder shall provide details of software and where it is currently in	
	USE.	
EVIDENC	CE – GENERAL	
213.	The Contractor shall provide evidence if any charge with respect to a red	
	light or speeding offence is laid where an Intersection Safety Camera or	
	Photo Radar/Laser Unit image is involved.	
COURT	PACKAGE	
214.	If notified that a trial has been set by the Court regarding an offence	
217.	captured on an Intersection Safety Camera, the Contractor shall create a	
	Court package consisting of:	
	a) Two (2) copies of the information;	
	b) Three (3) sets of colour photographs (on the Loops, in the	
	intersection and plate close-up);	
	c) One (1) original Special Constable schedule (Schedule D or E,	
	depending on the offence) and two copies;	
	 d) Three (3) copies of the testing certificate from the ISC System 	
	Technician;	
	e) Three (3) copies of the testing certificate from the ISC Field	
	Technician;	
	f) Three (3) copies of the testing certificate from the ISC Loop	
	Installer; and	
045	copies.	<u>├</u> ───┤
215.	If notified that a trial has been set by the Court regarding an offence	
	captured by a Photo Radar/Laser Unit, the Contractor shall create a	
	Court package consisting of:	
	a) Two (2) copies of the information;	
	b) Three (3) sets of colour photographs (Image and plate close-up);	
	c) One (1) original Special Constable Schedule F and two (2) copies;	
	d) Three (3) copies of the testing certificate from the designated radar	
	tester, in accordance with Item 229;	
	e) One (1) original MPI Registered Owner Certificate and two (2)	
	copies; and	
	f) Two (2) copies of original notes from the Photo Radar/Laser	
	operator.	
216.	The Contractor shall deliver the Court package to the designated Court	
210.		
	office a minimum of sixty (60) days prior to the scheduled court date to	
	allow for proper disclosure of the evidence to the accused by Manitoba	
	Justice.	

EXPERT	WITNESSES	
217.	 WITNESSES The Contractor shall, upon request of the Contract Administrator, provide the services of expert witnesses to; a) Provide evidence regarding the technical functions of the Intersection Safety Camera and Photo Radar/Laser Systems and their components, and their accuracy and reliability; b) Consult with Department of Justice employees; c) As required, provide resumes of each proposed expert witness, describing the individuals experience testifying as an expert witness for Photo Enforcement Programs. BE AND CARE The Contractor shall; 	
	 a) Maintain a proper documented chain of evidence in accordance with Canadian Law and the policy of The Winnipeg Police Service; b) Maintain all evidence files and images for a period of no less than seven (7) years; and c) Maintain files where no actions are taken until receiving approval from the Contract Administrator to delete. 	
	ATION MANAGEMENT – GENERAL	
219.	The Contractor shall store and maintain all information and images for a	
220	period of no less than seven (7) years.	
220.	Information and images shall not be deleted without the prior approval of the Contract Administrator.	
DATABA		
221.	The Contractor shall maintain an electronic database with all of the data and images collected from each Intersection Safety Camera and Photo Radar/Laser Unit offence.	
222.	 The database at a minimum shall; a) Maintain files and images for a period of no less than seven (7) years b) Store all of the following data so it can be used as a management and statistical tool; all data captured by the Intersection Safety Camera and Photo Radar/Laser Unit; all registered vehicle owner information; any other information required to prepare the Offence Notice; all images captured by the Intersection Safety Camera and Photo Radar/Laser Unit. c) Back up all data stored in the database at a secure second location, within Winnipeg, approved by the Contract Administrator. *The Bidder shall describe the proposed method of backup, the proposed backup location and the proposed security measures. 	
TRACKI	NG AND REPORTS	
223.	The Contractor shall use a computerized system for tracking and reporting all relevant information recorded by the Intersection Safety Camera and Photo Radar/Laser Unit System and generated as a result of offence processing	

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224.	The	e system at a minimum will be capable of;	
		Generating monthly, quarterly, and annual reports for the first year of	
	ω,	operations. Reports must be generated no later than ten (10)	
		Business Days following the end of the month. The reports	
		generated must include at a minimum the following;	
		I. number of offences recorded;	
		II. number of offences where Offence Notices were not prepared;	
		III. breakdown for reasons for non-issuance;	
		IV. Offence Notices prepared and mailed;	
		V. Court hearing scheduled and held;	
		VI. Disposition of Court hearings;	
		VII. Camera equipment hours of service, hours out of service;	
		VIII. Number and description of camera or other equipment	
		malfunctions; and	
		IX. Average number of days elapsed between date of offence and	
		date that Offence Notice was mailed to the registered owner.	
	b)	Generating a monthly traffic volume and speed report of all available	
	,	data for all traffic movement;	
	C)	Generating Statistical/Managerial reports accessible on a 24 hour/7	
	- /	day basis containing detailed Offence Notice information for	
		Offences issued at intersection cameras and by photo radar/laser	
		mobile operators. Information to be provided in a Microsoft	
		compatible format and must include:	
		I. Offence Notice number;	
		II. Date, time and location of Offence;	
		III. Offence – including number of kilometres over speed limit;	
		IV. Type of Offence – including number of kilometres over speed	
	.0	limited (if applicable);	
	d)	Generating Statistical/Managerial reports accessible on a 24 hour/7	
		day basis containing summary total of individual Offence Notice	
		transactions including:	
		 Number issued by specific day; 	
		 Number issued by specific month; 	
		III. Number issued by intersection location/day/month/YTD and	
		previous YTD;	
		IV. Number issued by photo radar/laser operator identification	
		number/day/month/YTD and previous YTD;	
		V. Number issued by kilometers over speed limit.	
	e)	Generating Statistical/Managerial reports, from a secured remote	
	,	City of Winnipeg location/office, accessible on a 24 hour/7 day basis	
		containing:	
		I. a database for the purpose of monitoring the status (paid or	
		outstanding) of Offence Notices that have been issued and	
		associated accounts receivable balances;	
		II. supply management reports in a Microsoft Office compatible	
		format based on information provided above in this section of	
		the Detailed Specifications, on an ad hoc basis which is	
	t)	accessible by persons named by the Contract Administrator.	
	f)	Reports will be provided to the City in a format approved by the	
	、	Contract Administrator.	
	<u>g)</u>	Photo radar/laser operator identification number.	<u> </u>
		ION SAFETY CAMERA FIELD TECHNICIANS	
225.		e Contractor shall provide Intersection Safety Camera Field	
		chnicians meeting, as a minimum, the requirements specified in Item	
	228	8 of these Detailed Specifications.	
226.		ere shall be a minimum of one (1) Field Technician per twenty (20)	
		meras.	
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-	ECTION SAFETY CAMERA SYSTEM TECHNICIAN	[
227.	The Contractor shall provide a minimum of one (1) Intersection Safety		
	Camera System Technician and a Loop Installer Technician, meeting, as		
	a minimum, the requirements specified in Item 228 of these Detailed		
	Specifications.		
	M PERSONNEL AND TECHNICIAN REQUIREMENTS		
228.	The Intersection Safety Camera System Technician, the ISC Field		
	Technicians and the ISC Loop Installers shall:		
	a) Be appointed by the Minister of Highways – The Highway Traffic Act		
	Section 257.3(1);		
	b) Be authorized to complete a certificate as outlined under The		
	Highway Traffic Act Section 257.3(2); c) Have completed formal training and on-the-job training with the		
	 c) Have completed formal training and on-the-job training with the Contractor's equipment; 		
	d) Be employed and certified by the Contractor or a Subcontractor; and		
	e) Testify in Court when required		
TESTER	APPOINTMENTS		
229.	Section 257.1 of The Highway Traffic Act provides for appointment of		
220.	testers by the Minister of Transportation. The ISC System Technician,		
	ISC Field Technicians, and ISC Loop Installers shall be the designated		
	testers. These testers shall be employees of the Contractor or a		
	Subcontractor. A tester shall provide evidence, both verbally and by		
	certificate, for court purposes as to the accuracy and proper functioning		
	of the Intersection Safety Camera.		
230.	The Contractor shall provide Manitoba Justice with a list of trained		
	service personnel from which Manitoba Justice may designate such		
	persons as qualified testers.		
ORIENT	ATION		
231.	At the request of the Contract Administrator, the Contractor shall provide		
	an in-depth program overview.		
TRAININ			
232.	The Contractor shall, at his expense, provide training for six (6) to a		
	maximum of fifteen (15) Winnipeg Police Service personnel in all		
	aspects of the proposed Photo Enforcement System over the duration of		
	the Contract.		
PUBLIC	EDUCATION REQUIREMENTS		
233.	The Photo Enforcement Program includes a public education/awareness		
	program to be funded by the Contractor. The program funds shall be		
	\$200,000.00 per year over the duration of the Contract. The Contractor		
	shall designate and maintain this fund. The City of Winnipeg shall have		
	full authority on the disbursement of the funds. The Contractor, in		
	conjunction with the City, shall assist in developing the public awareness		
	education program ideas.		

4.	Th	DAR/LASER OPERATORS e Contractor shall provide the following:	
-		Staff ten (10) mobile radar/laser vehicles for two (2) - eight (8) hour	
		shifts over a fourteen (14) day enforcement period. Shifts are from	
		07:00 hours to 15:00 hours, and 14:00 hours to 22:00 hours, seven	
		days a week, everyday;	
	b)	Designate one of the operators as a street supervisor for each shift;	
		Provide an over-all supervisor in the processing facility during	
	•,	regular business hours or as approved by the Contract	
		Administrator:	
	d)	Train, at his expense, all photo radar/laser operators in Photo	
	,	Radar/Laser operations, consisting of:	
		I. Basic Doppler Radar, Laser training; and	
		II. Practical and theoretical training of the Contractor's proposed	
		Photo Radar/Laser products;	
	e)	Ensure that all training is to the satisfaction and requirements of the	
	,	Manitoba Departments of Justice, Infrastructure and Transportation,	
		and the Contract Administrator for the duration of the Contract;	
	f)	The WPS will provide oversight and required standards for the	
		trainer. The Contractor will provide "train the Trainer" instruction for	
		the Basic Doppler Radar, Laser Training.	
	g)		
		requirements of the Manitoba Department of Infrastructure and	
		Transportation to be designated testers for the Photo Radar/Laser	
		equipment;	
	h)		
		requirements for appointment as Special Constables within the	
		Province of Manitoba through the Manitoba Department of Justice	
		prior to performing any Work under this Contract; and	
	i)	Liaise with Department of Justice and maintain a court attendance	
		schedule for all photo radar/laser operator court appearances.	
		te: Bidders are advised that there could be a significant amount of	
		er-time costs associated with photo radar/laser operators being	
	rec	quired to attend Court on personal time.	

PHOTO	RADAR/LASER OPERATOR MANDATORY REQUIREMENTS	
235.	Photo radar/laser operators shall:	
	a) Be a minimum of 18 years of age;	
	 b) Be sworn in as a Special Constable within the Province of 	
	Manitoba;	
	c) Have proof of successful completion of non-enforcement training in	
	Photo Radar/Laser;	
	d) Be in possession of a valid Manitoba Class 5.0 Driver's License	
	with no more than four (4) demerits on a Driver's abstract as	
	assessed by the Winnipeg Police Service. Quarterly inspection, by	
	the Winnipeg Police Service of driver's license status will be	
	mandatory for all operators;	
	e) Be able to work in a supervised and/or unsupervised environment	
	at predetermined enforcement locations throughout the City;	
	f) Be able to work days, evenings and weekend shifts including	
	Statutory and Civic Holidays;	
	g) Be able to attend Court and testify, if required, on days off.	
	The Contractor shall ensure the photo radar/laser operators shall:	
	h) Perform general daily maintenance of Photo Radar/Laser Vehicles	
	and Photo Radar/Laser Equipment;	
	i) Report any vehicle and equipment malfunctions to supervisor to	
	arrange for immediate repair or replacement;	
	j) Field test the Photo Radar/Laser product, as trained, at set-up and	
	breakdown at all enforcement locations;	
	 k) Maintain documented chain of evidence of media and data cards 	
	utilized during shift;	
	 I) Maintain a written log during enforcement duties of vehicle depariation of violators for avidance purpasses 	
	description of violators for evidence purposes;	
	 Werify and sign all Offence Notices issued on violations submitted for processing; 	
PHOTO	n) Testify in court, when required, for the prosecution of offences. RADAR/LASER OPERATOR DRESS AND DEPORTMENT	
236.	All photo radar/laser operators under this Contract shall be fully and	
230.	properly uniformed in a professional manner while on duty and also	
	when requested to attend court.	
рното	RADAR/LASER OPERATORS SUPERVISION AND AUTHORITY	
237.	Photo radar/laser operators will be under the sole direction of the	
2071	Winnipeg Police Service Contract Administrator or designate with	
	respect to all assignment of enforcement locations and times.	
	All errors, discrepancies and questionable evidence must be directed to	
	the attention of the Winnipeg Police Service Contract Administrator or	
	designate.	

FORM S: SEPARATE PRICES

SUPPLY, INSTALLATION AND OPERATION OF A PHOTO ENFORCEMENT PROGRAM

These separate prices are for the information of the City. This pricing may be used as the basis for pricing of any additional locations over and above fifty (50) Intersection Safety Camera locations and thirty-three (33) Intersection Safety Cameras which are included in the pricing on Form B: Prices.

ltem No.	Description	Unit	Unit Price
1.	Intersection Safety Camera Location	Each	
	Relocation of an existing Intersection Safety Camera		
2.	(Take down and install in a new location)	Each	

State any applicable discounts for multiple quantities (acquired at the same time) for items 1 and 2 above

Note: Separate Prices are based on a standard intersection with 4 (four) corners and two lanes of traffic in each direction