CHECKLIST
Materials for Different types of Cases

The General List of Items That I Like For All Cases Are:

- Photographs taken by the police at the scene – these are worth their weight in gold. They show the damage to the vehicles but most importantly they show the vehicles' rest positions and the perishable scene evidence such as tire marks, debris and scratches.
- Measurements taken by the police at the scene (Total Station measurements and/or other measurement logs).
- The data from skid tests or drag/slip tests performed by the police at the scene.
- Vehicle mechanic inspection reports.
- Police MV6020.
- Photographs taken by involved parties or witnesses (even using cellphone cameras).
- Newspaper photographs – what they publish is just the tip of the iceberg, they will have many more. They are normally taken by professional photographers with good cameras and have excellent quality. They frequently delete any non-published images within weeks or months of the crash.
- Damage estimate forms including all supplements.
- Photographs of the vehicles taken by ICBC/insurers.
- The reports from any event data records downloaded from the vehicles.
- The opportunity to personally inspect all the involved vehicles and the scene.
- Statements and/or Discovery information to provide a general understanding of what happened.

For all photographs I prefer them in their original electronic format. The high resolution photographs from digital cameras provide a wealth of information that is lost when using printouts. A scanned printout of a photograph is much lower resolution than the original and it will have a noticeable effect on the uncertainty of the engineering analysis. In general I am moving towards a nearly paperless file and would appreciate as much material as possible in electronic format as well.

The Issues to Explore & Desired Material By Type Of Case:

Type of Case	Issues	Desired Materials
Left turning vs On-coming	• Speed of both drivers. • Did the left turner stop before launching into turn? • Was the on-coming vehicle visible and/or an apparent immediate hazard when the left turner launched? • Avoidance possibilities.	• I need impact and rest positions. Ideally this would come from the Police photographs and measurements, but I can also work with assumed impact rest positions provided by the parties and/or witnesses using a scale diagram of the scene which I provide. • Legal damage information lets me calculate a damage based Δ to confirm the results of the speed analysis.
Seatbelt Use	• Was the person wearing their seatbelt? • Would the seatbelt have reduced or eliminated the injuries? • Was the seatbelt available and functional?	• A personal inspection of the vehicle to see whether the seatbelt is available and functional and to look for evidence of seatbelt use and of occupant to vehicle contact. • Vehicle damage information (if I can inspect the vehicle, of course I will have that myself). • Medical information regarding the injuries.

Type of Case	Issues	Desired Materials
Pedestrians/Bicycles	• Was the pedestrian walking, running or standing still? • What direction was the pedestrian moving? • How visible/conspicuous was the pedestrian? • Was the vehicle visible and/or an apparent immediate hazard when the pedestrian stepped off the curb? • Vehicle's speed. • Was the pedestrian in the X-walk? • Avoidance possibilities.	• Rest positions of the pedestrian and vehicle, ideally from the Police measurements and photographs. • Pedestrian injury information. • I may have to attend the scene to re-create and document the visibility.
Motorcycle	• Speed of motorcycle and/or other vehicle. • Avoidance possibilities.	• Year/make/model of motorcycle.
Low Velocity Impacts	• Impact severity (Δv). • Was the vehicle that was struck on the rear backing up at impact? • Chain reaction rear-ender: who hit who first? • Avoidance possibilities.	• Vehicle damage information/photographs. • For the chain reaction rear-enders subtle scratches on the bumpers can be key information and, therefore, personal inspections of vehicles are more important. High quality, high resolution photographs are a second choice.
Commercial Vehicles	• Speed. • Maintenance (were the brakes adjusted properly)? • Did the cargo shift contribute to a rollover? • Avoidance possibilities. • Log book issues? • Tachograph and/or engine computer data may show speed, braking and other very useful information.	• Police scene information. • Year/make/model and Vehicle Identification Number of the tractor trailer and/or truck.