RED HILL VALLEY PARKWAY INQUIRY

TRANSCRIPT OF PROCEEDINGS HEARD BEFORE THE HONOURABLE J. WILTON-SIEGEL held via Arbitration Place Virtual on Tuesday, May 10, 2022 at 9:30 a.m.

VOLUME 11

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- 1 Arbitration Place Virtual
- 2 --- Upon resuming on Tuesday, May 10, 2022
- 3 at 9:30 a.m.
- 4 MR. LEWIS: Good morning.
- 5 JUSTICE WILTON-SIEGEL: Good
- 6 morning.
- 7 MR. LEWIS: Good morning
- 8 Commissioner, Mr. Moore. May we proceed?
- 9 JUSTICE WILTON-SIEGEL: Please
- 10 proceed.
- MR. LEWIS: Thank you.
- 12 GARY MOORE; (previously affirmed)
- 13 EXAMINATION BY MR. LEWIS (cont'd):
- Q. Good morning, Mr. Moore.
- 15 I would like to move next to the issue of the MTO
- 16 skid testing that took place ultimately on
- 17 October 16th, 2007 on the Red Hill Valley Parkway.
- 18 And just to set that in time for you, I'll ask you
- 19 about the lead up to that, but we know it took
- 20 place on the 16th of October and Dr. Uzarowski
- 21 sent the results to you and Mr. Oddi on the 18th
- 22 of October. So that's just the -- so you have
- 23 that timeframe in your mind.
- So with that, what is your
- 25 recollection as to how and why the MTO skid

- 1 testing of the Red Hill Valley Parkway took place
- 2 in October 2007?
- A. I recall, you know, being
- 4 asked at if the MTO could do the skid testing on
- 5 the roadway.
- Q. Being asked by who?
- 7 A. I believe it was Ludomir.
- Q. Ludomir Uzarowski?
- 9 A. Yes.
- Q. Continue.
- 11 A. I'm not sure when or how.
- 12 I did understand that they were having an issue
- 13 with their SMA and that they wanted to see how
- 14 ours was performing. I believe that was the gist
- 15 of it.
- 16 O. Is that the extent of
- 17 your recollections outside of the documents that
- 18 are in the overview document?
- 19 A. I'm not sure. I'm not
- 20 sure what your -- you want more, what you're
- 21 looking for.
- Q. So was it Dr. Uzarowski
- 23 who first came to you about this?
- A. I believe it was, yes.
- Q. Do you recall when that

- 1 was in relation to the SMA paving commencing on
- 2 August 1st, 2007 and the testing actually
- 3 occurring in October 2007?
- A. I -- I'm feeling is it
- 5 was closer to the end after we just about finished
- 6 or were done the paving.
- 7 Q. And your understanding is
- 8 who wanted the testing to be done? Was it the MTO
- 9 or was it Dr. Uzarowski? Who was -- at whose
- 10 instance was it being done did you understand from
- 11 your conversations with him?
- 12 A. From my recollection I
- 13 thought it was the MTO that was requesting it to
- 14 be done because they wanted the knowledge -- there
- 15 was another SMA being placed and they wanted to
- increase their knowledge base on that regard.
- 17 That's -- that's my feeling on the recollection.
- Q. All right. You indicated
- 19 that your feeling or recollection was that it was
- 20 to do with the MTO and having an issue with the --
- 21 with that type of pavement; is that right? Did I
- 22 catch that correctly?
- 23 A. Yeah. I believe that was
- 24 the case because I'm sure if Ludomir come to me
- 25 and said MTO wanted to do testing that I might

- 1 have asked why, what's -- and I don't know whether
- 2 I fully understood what the issue was at the time
- 3 or that they were just having some issue and they
- 4 wanted to test our road.
- 5 Q. When you were at least
- 6 first discussing with him, do you recall if there
- 7 was any issue discussed about skid resistance of
- 8 the pavement?
- 9 A. I'm trying to recall any
- 10 specific -- like, it may have been but I can't be
- 11 sure.
- 12 Q. Okay. Then just to place
- it in time, if we can go to overview document 4,
- 14 Registrar, images 52 and 53. Actually, bad start
- 15 to the day. I'm going to ask you to go back to
- 16 image 50, please.
- 17 We know that there was a
- 18 discussion that Dr. Uzarowski had back on
- 19 July 31st that you were not involved in with Chris
- 20 Raymond at the MTO, but the next mention of skid
- 21 testing in the MTO is on -- is in September and
- 22 specifically September 10th and 11. There's some
- 23 indications in Dr. Uzarowski's notebook about
- 24 mentioning your name, you see in paragraph 110,
- and on September 11th Mr. Raymond at the MTO

- 1 e-mailed internally at the MTO about having a
- 2 telephone call with Dr. Uzarowski.
- 3 So now we're in September and
- 4 certainly by that time the SMA paving, perhaps all
- 5 of the paving, was done by that point. You said
- 6 that your thought was that the -- that you were --
- 7 that you had your first discussion with
- 8 Dr. Uzarowski sometime -- when the paving was
- 9 done. Does it make sense it was sometime in
- 10 September then? Does that make sense?
- 11 A. It could have been, I
- 12 mean....
- Q. But you're still not sure
- 14 about it?
- 15 A. No.
- Q. Then if we could go to
- where I took you originally, Registrar, images 52
- 18 and 53. There's a series of e-mails which are
- 19 internal to the MTO on September 27th and
- 20 following, following an e-mail from Dr. Uzarowski,
- 21 which you'll see in paragraph 116 there to Chris
- 22 Raymond at the MTO about conducting the testing on
- 23 the Red Hill. You weren't copied on it privy to
- 24 these e-mails at the time.
- Just to take it through and

1	place it in time, and I'm going to ask you some
2	questions about the issues that are raised in
3	there.
4	In paragraph 117, if you could
5	expand that, please. In paragraph 117 there's
6	Mr. Raymond is discussing with Becca Lane at the
7	MTO about doing the testing on the perpetual
8	pavement, speaking of the Red Hill, and then in
9	the second paragraph it says:
10	"Ludomir is requesting
11	friction testing and the City
12	does not have objections to
13	the testing but the City is
14	not making a request to the
15	Ministry."
16	Then you can take that
17	down.
18	Then in 119 Tom Kazmierowski,
19	at the time the MTO says to Ms. Lane:
20	"Yes, but we should have
21	Ludomir instruct the City to
22	either request the testing or
23	at least approve Ludomir's
24	request for testing and give
25	permission for us to test on

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1	their facility."
2	Take that down please.
3	And then at paragraph 121 of
4	the following page, actually both that and the
5	next part as well. The next paragraph, 121 as
6	well. So Ms. Lane indicates:
7	"We don't need a letter of
8	request but we do need their
9	approval." (As read)
10	Meaning the City. And Mr.
11	Raymond responds:
12	"Yes, the City is in agreement
13	but it is strange that the
14	City are not willing to write
15	a request. I asked Ludomir to
16	specifically send me a request
17	from the City a few weeks
18	ago." (As read)
19	Take those down, please.
20	Do you recall having any
21	discussions with Dr. Uzarowski about the need for
22	a written request by the City to the MTO for the
23	skid testing?
24	A. No, I don't specifically
25	recall in that regard, no.

- Q. You don't recall one way
- 2 or the other?
- A. I don't.
- Q. Following that, do you
- 5 recall if the City did not want to make or you did
- 6 not want to make a request on behalf of the City?
- 7 A. I don't recall in not
- 8 wanting to. I don't know why we wouldn't, you
- 9 know, why we would -- it appears from -- that we
- 10 agreed to the testing but I don't recall being
- 11 asked to make a formal request, but I don't
- 12 remember being -- if it had been our initiative I
- 13 would have thought, you know, been something we
- 14 would have done but I don't -- I don't recall it
- 15 being our initiative at all.
- Q. By this point in time --
- 17 so we're now in late September 2007 -- you
- 18 mentioned before again about your recollection of
- 19 there being an issue with the MTO's pavements
- 20 potentially and that was related to that. Were
- 21 you by this time aware or unaware of the SMA early
- 22 age low friction issue that the MTO had
- 23 identified?
- 24 A. I can't say for sure when
- 25 I became aware of that. I know I was aware but at

- 1 sometime in light of the fact that they were
- 2 giving us the information, you know, we wanted to
- 3 know well how is it. So I have to say that I
- 4 became aware of it at some time but I don't know
- 5 exactly when that was.
- Q. Giving us the information
- 7 what are you referring to?
- A. The results from the
- 9 testing.
- 10 Q. So then in October?
- 11 A. Yes.
- 12 Q. Do you recall if you were
- 13 -- became aware of the early low age friction
- 14 issue regarding SMA prior to or after the SMA
- 15 paving on the Red Hill?
- 16 A. I can't say for sure but
- 17 I would -- it's my feeling it was after, closer to
- 18 when this testing was being arranged.
- Q. So as I said, we know
- that the skid testing took place on October 16th,
- 21 and if we could go to images 62 and 63, Registrar.
- 22 Image 62, paragraph 139, if you could call that
- 23 out. This is on October 18th, so two days after
- 24 the testing.
- 25 Mr. Raymond e-mailed

1	Dr. Uzarowski and Mr. Delos Reyes of Golder the
2	MTO friction testing results, and this gets
3	forwarded to you subsequently by Dr. Uzarowski so
4	you did see it after but we'll just look at it
5	here. Wrote:
6	"Attached please find the
7	friction testing results for
8	the Red Hill Valley Parkway.
9	Please pass the results on to
10	those involved with the
11	project. You may wish to note
12	that some of the friction
13	numbers, less than 30,
14	correlate with being located
15	under a structure. Should you
16	have any questions regarding
17	the results please do not
18	hesitate to contract us." (As
19	read)
20	Take that down, please. Then
21	paragraph 141 on image 63, if we could call that
22	out. Dr. Uzarowski forwarded that e-mail from Mr.
23	Raymond with the test results to you and Mr. Oddi
24	indicating:

"Please find attached the

25

1 results of the friction 2 testing on the Red Hill Valley 3 Parkway completed for us by 4 MTO. I will call you to 5 discuss the results." (As 6 read) 7 Did you discuss the results 8 with Dr. Uzarowski. 9 A. I believe we did. 10 What's your best Q. recollection of what he told you? 11 12 Α. That they found that our 13 initial friction numbers were higher than what MTO 14 would get on their roadways and that we were good 15 to go. 16 Ο. When you say higher than 17 the MTO generally got it its roadways, did he 18 specify what kind of pavement? 19 Α. Well, with the SMA. 20 O. Specific. So that was 21 specific to the SMA? 22 Specific to the SMA. I Α. 23 believe I was aware of the early age friction at 24 the time of receiving these results. 25 Q. So aware of it at the --

- 1 like by the time you received it, so prior to
- 2 speaking to Dr. Uzarowski?
- A. I believe so.
- Q. Do you know how you
- 5 became aware of that?
- A. I have to think that it
- 7 was during discussions about -- they are having
- 8 this issue and they want to see if it's consistent
- 9 with mixes or aggregates or whatever and let's do
- 10 ours -- they want to do ours just to see. There
- 11 was no downside to them doing it.
- 12 O. Who would that discussion
- 13 have been with?
- A. With Mr. -- Ludomir.
- 15 O. Ludomir Uzarowski. Okay.
- 16 In your conversation with
- 17 Dr. Uzarowski about the results did you have any
- 18 discussion with him about prospectively what was
- 19 anticipated to happen with friction on the Red
- 20 Hill?
- 21 A. I think I understood that
- 22 the friction numbers would go up, as the as the --
- 23 after the initial traffic surge, you know. They
- 24 were still looking to see what was the cause,
- 25 whether it was thin film of asphalt on the

- 1 aggregate after paving or, you know, initial wear
- 2 on the aggregate to develop the macrotexture. I
- 3 don't know what they were -- what they eventually
- 4 came up with, but whatever it was it didn't seem
- 5 that ours was experiencing the same low numbers
- 6 that they were getting initially. I don't believe
- 7 there was any long term issue with the SMA, it was
- 8 just this initial number until the traffic got on
- 9 it.
- Q. Was this information
- 11 prior to you receiving the results on the 18th of
- 12 October? You were already aware of these things,
- if I understand you correctly?
- 14 A. In or about that same
- 15 time period. I mean, whether it was during the
- 16 testing or, you know, in the explanation of why
- 17 they wanted to do the testing, it's my sense that
- 18 that's when I started to understand what they were
- 19 looking for and why.
- 20 O. So again, do I understand
- 21 correctly you are talking about from discussions
- 22 with Dr. Uzarowski?
- 23 A. Yes, sir.
- Q. Not from another source?
- 25 A. No.

- 1 Q. Okay. In Mr. Raymond's
- 2 e-mail on October 18th to Dr. Uzarowski that he
- 3 forwarded to you, his reference -- he makes
- 4 reference, as we looked at, to noting that some of
- 5 the friction numbers less than 30 correlate with
- 6 being located under a structure. What did, at the
- 7 time, you take from that paragraph, if anything?
- A. Maybe develop a question.
- 9 What does that mean?
- 10 Q. At that point in time you
- 11 did not have an appreciation of what that meant?
- 12 A. No, I don't. I don't
- 13 know what the -- is it the fact that it's under a
- 14 structure, is there something that the structure
- is having an effect that causes the number? Is
- 16 there anything -- you know, the fact there's one
- or two spots. What does that mean? I don't know
- 18 what the importance of an individual measurement
- 19 is or was.
- 20 O. What about the number 30
- 21 itself? Is that something that you had any
- 22 appreciation of at that time?
- 23 A. No, sir.
- Q. Is that something that
- 25 you discussed with Dr. Uzarowski in your

- 1 discussions with him about the -- discussion or
- 2 discussions with him about the results?
- A. Not that I recall. My
- 4 recollection is that once we heard that all our
- 5 numbers were better than UTOs and we didn't seem
- 6 to be experiencing that low initial friction
- 7 number that we were -- that there wasn't any
- 8 issue.
- 9 Q. Now, yesterday we were
- 10 talking about the Burlington Street SMA placement
- 11 done in 1999 and the MTO test results reflected in
- 12 the CTAA paper written in 2002. You'll recall the
- 13 MTO friction number results were reported in the
- 14 paper as being 45 to 51, which was reflected as
- 15 being considered by the MTO as, quotes, "to be
- 16 consistent mixes having excellent skid resistance
- 17 properties." Do you recall that?
- 18 A. I think that I recall
- 19 from yesterday, yes.
- 20 O. So when you were looking
- 21 at these results, on October 18th or thereafter,
- 22 did you consider how these results compared with
- 23 the results reported in the CTAA paper that you
- 24 co-authored by in 2002 respecting the Burlington
- 25 Street SMA placement?

- 1 A. I don't believe it came
- 2 to mind. I mean, there are two different
- 3 roadways. One is 50 kilometres an hour and one is
- 4 90 kilometres an hour, so I don't know that I
- 5 would have any ability to -- whether those numbers
- 6 meant anything against each other. So I can't
- 7 recall it coming to mind.
- Q. So there's a couple of
- 9 things there. First of all, with respect to the
- 10 speed. At this point in time did you appreciate
- 11 that the speed at which locked-wheel skid testing
- 12 took place affected the skid number or friction
- 13 number obtained from that testing?
- A. No, I don't believe so.
- 0. So that wouldn't have
- 16 been something that -- that distinction then would
- 17 not have come to your mind at that time between
- 18 the two -- the test done on Burlington Street and
- 19 on the Red Hill, correct?
- 20 A. Right, other than it was
- 21 a different facility, I don't think.
- Q. So right. It's a
- 23 different road.
- 24 A. Yes.
- Q. But both using SMA

- 1 pavement, correct?
- A. Correct.
- Q. And both projects in
- 4 which you were involved?
- 5 A. I was involved yes. And
- 6 for that report to some minor extent, yes.
- 7 Q. Okay. And the only two
- 8 SMA projects at that point in which you have been
- 9 involved in, correct?
- 10 A. We did do some other
- 11 paving in the City with SMA but -- I don't think
- 12 we did any sort of report to our analysis of that.
- Q. Fair enough.
- 14 Nevertheless, you're saying you did not -- if I
- 15 understood you correctly, you didn't think about
- 16 at the time any comparison between the MTO
- 17 friction test results on Burlington Street and on
- 18 the Red Hill. Did I understand you correctly?
- 19 A. That's correct.
- 20 O. You indicated you did
- 21 not, at that time in October 2007, understand what
- the FN30 referred to in Mr. Raymond's e-mail,
- 23 about what it meant and its significance at the
- 24 time. Is that something that you did come to
- 25 learn, what the significance was of FN30, or no?

- 1 MR. LEDERMAN: Sorry, it's not
- 2 clear as to what point in time you are talking
- 3 about with respect to that question.
- 4 MR. LEWIS: I just want to
- 5 know if he did. If it's much later -- I
- 6 appreciate he's going to be attending again, but
- 7 if he did become aware we would like to know that
- 8 and just be able -- I'm not going to pursue it
- 9 beyond that, but if you did come to learn about it
- 10 later then that's something we should know. If
- 11 it's at a later point in time we can pursue at a
- 12 later date.
- MR. LEDERMAN: I guess that's
- 14 what I was seeking clarification on your question
- 15 because you said at some point in time. Do you
- 16 mean in the 2007 timeframe or are you talking
- 17 about at a later period of time, which I
- 18 understand Dr. Moore be speaking to at the next
- 19 attendance.
- 20 MR. LEWIS: I just want to
- 21 know when it was and then we can put a pin in it,
- 22 so to speak, if it comes into a later period of
- 23 time. I don't want to suggest anything to him
- 24 so....
- MR. LEDERMAN: All right.

- 1 THE WITNESS: It was much
- 2 later. It wasn't any time in the 2007 or '8
- 3 timeframe.
- 4 BY MR. LEWIS:
- 5 Q. So you're talking about a
- 6 number of years later?
- 7 A. Yes.
- 8 MR. LEWIS: I'll anticipate
- 9 Mr. Lederman will have a question about -- so the
- 10 subsequent questions I would like to ask, and
- 11 again ask Mr. Moore not to answer and perhaps we
- 12 could have a discussion about it, is how did he
- 13 learn that and from whom at a -- and when that was
- 14 to the best of his recollection. Again, so we
- 15 have a sense of that and then it can be addressed
- 16 later on.
- 17 MR. LEDERMAN: I think are
- 18 documents that will deal with that in the later
- 19 timeframe, so rather than having the witness
- 20 speculate or think about that at this stage
- 21 without seeing the documents or the portions of
- 22 the OD that deals with that, I don't know that it
- 23 makes sense to address that now.
- 24 MR. LEWIS: If he actually has
- 25 a recollection without the documents then I would

- 1 like to hear it, but of course I'm in the
- 2 Commissioner's hands on that.
- JUSTICE WILTON-SIEGEL: I
- 4 think we'll remit the question to later. We have
- 5 the answer it was passed 2008. Let's deal with it
- 6 when we're dealing with that section.
- 7 MR. LEWIS: Thank you.
- 8 BY MR. LEWIS:
- 9 Q. Mr. Moore, did you review
- 10 the actual MTO test results and see one of the two
- 11 lanes as reflected above there on page 62 of the
- 12 overview document? The other one is on the
- 13 previous page. Maybe you could put up 61 and 62
- 14 together, Registrar.
- 15 Did you review the actual
- 16 results? Did you look at them? They were
- 17 attachments to the e-mail forwarded by
- 18 Dr. Uzarowski.
- 19 A. I don't have a specific
- 20 recollection of looking at them. I'm trying to
- 21 remember if there's something there that might
- 22 have twigged me but not -- I would imagine I did
- 23 look at them but I don't know whether there was
- 24 anything there that meant anything to me at that
- 25 time.

- Q. So you probably did,
- 2 can't say for sure, and do you then recall if you
- 3 took anything from it? Did you understand what
- 4 they meant?
- 5 A. No, I did not.
- 6 Q. No?
- 7 A. No.
- Q. Okay. I think you
- 9 indicated with Dr. Uzarowski that he had indicated
- 10 to you that the results were better than the MTO
- 11 was typically getting on its SMA pavements, and I
- 12 think he used the words that we're good to go. Is
- 13 that --
- 14 A. That's my -- just on my
- 15 recollection, yes.
- Q. Are you saying he used
- 17 those exact words, good to go or is that just your
- 18 --
- A. No, probably my words.
- 20 Q. That's what you took from
- 21 it though?
- 22 A. That's what I took from
- 23 it, yes.
- Q. I take it from what you
- 25 said that about FN30 and not really understanding

- 1 how to interpret the results that we're looking at
- 2 here on pages 61 and 62, that you didn't consider
- 3 yourself at that time to have the expertise to
- 4 interpret the results and so you relied on what
- 5 Dr. Uzarowski told you about them; is that fair?
- A. That's correct.
- 7 O. And Dr. Uzarowski didn't
- 8 recommend to you that any further investigations
- 9 ought to be taken; is that right?
- 10 A. That's -- I don't recall
- 11 anything else, that there was any remedial or
- 12 follow-up or anything else that we needed to do in
- 13 that regard.
- 14 Q. And you don't recall him
- 15 suggesting anything of that sort?
- A. No, I don't.
- 17 O. I take it you didn't
- 18 question him about that. He said good to go, or
- 19 words to that effect, that you understood it and
- 20 you said, okay, fine, we're good to go?
- 21 A. We had a lot of other
- 22 issues on the go and -- was one thing down and
- 23 let's get on with whatever else we need to get
- 24 this open.
- 25 Q. If Dr. Uzarowski had said

- 1 to you that the skid resistance was low and
- 2 recommended that a more detailed investigation be
- 3 conducted, would you have then correlatively
- 4 followed his recommendation?
- A. At that time likely. We
- 6 would have wanted to be sure. We may have said,
- 7 well, if it's low it's low, if it's not it's not.
- 8 If it's -- we would have had a thorough discussion
- 9 at least.
- 10 Q. Ultimately I expect you
- 11 would have followed his advise, if that's what his
- 12 advice was -- have the expertise; is that fair?
- A. At that time, yes.
- Q. Do you recall if you
- 15 communicated the MTO's results to Dufferin or
- 16 Philips?
- A. No, I don't. I don't
- 18 recall whether I did or not.
- 19 Q. Did you send or tell
- 20 anyone else at the City, other than Mr. Oddi who
- 21 obviously received the results, did you tell
- 22 anyone else at the City about the MTO test
- 23 results?
- 24 A. I don't believe I did. I
- 25 don't recall anything specific. I don't -- I

- 1 don't think I did.
- Q. At that point in time is
- 3 there anyone else other than Mr. Oddi that you
- 4 would have shared with or brought it into the loop
- 5 at that point?
- A. The fact we had no
- 7 director and, you know, general manager wasn't
- 8 aware of the day-to-day stuff, I don't know who I
- 9 would have passed this on to.
- 10 Q. If we could go to image
- 11 65, Registrar. One last question about the test
- 12 results and your discussion with Dr. Uzarowski
- 13 about it.
- 14 Do you recall if you had your
- 15 discussion with Dr. Uzarowski in the presence of
- 16 Mr. Oddi or separately from him? Do you know?
- 17 A. I don't, because I don't
- 18 know whether it was a phone call or whether he was
- 19 in the office on another matter and we discussed
- 20 it then or not.
- Q. It could be either way?
- 22 A. It could be either way.
- Q. So in paragraph 146 the
- 24 next day, October 19th, Dr. Uzarowski e-mails
- 25 Chris Raymond and Andros Delos Reyes at Golder

- 1 about British pendulum testing on the Red Hill in
- 2 that paragraph. That e-mail is excerpted here and
- 3 expanded. Do you recall if you were aware of it
- 4 being contemplated that the MTO conduct British
- 5 pendulum tests on the Red Hill at that time?
- A. I don't recall that
- 7 initiative, no.
- Q. Again, is that something
- 9 you just don't recall one way or the other?
- 10 A. Yeah, I don't recall it
- 11 at all, no.
- Q. Take that down,
- 13 Registrar. Thank you.
- 14 We know that the MTO conducted
- 15 further skid testing on the Red Hill Valley
- 16 Parkway in each of 2008, 2009, 2010, 2011, 2012
- 17 and 2014. Were you aware of that testing being
- 18 conducted at the time?
- 19 A. No.
- Q. When did you become aware
- 21 of it?
- 22 A. Only through this
- 23 process.
- Q. Through the inquiry and
- 25 the lead up to it?

- 1 A. Yes.
- Q. Registrar, can you go to
- 3 image 65. That's wrong then. Yes, it is. We're
- 4 in overview document 4. It's overview document 3.
- 5 Hold on. 69 and 70. It's paragraph 146 that I'm
- 6 interested in.
- 7 On February 4th, 2008 Mr. Oddi
- 8 sent an e-mail to Dennis Billings at the MTO with
- 9 the subject line "Red Hill Valley Parkway Stone
- 10 Mastic Asphalt." And then he sets out a
- 11 description of the Red Hill and the pavement used
- on it and references the trial section placed on
- 13 the ramp at the Mud Street intersection --
- 14 interchange.
- Were you aware at the time of
- 16 Mr. Oddi sending this e-mail or its contents?
- 17 A. I don't believe so.
- 18 Doesn't -- my mind or tweak anything that I
- 19 recall.
- Q. You don't know why he
- 21 sent this?
- 22 A. I don't. It appears to
- 23 be a response to something but I don't know what
- 24 it was.
- Q. Did you know Dennis

- 1 Billings at the MTO?
- A. I knew the name. I may
- 3 have met Dennis at other conferences but I'm not
- 4 sure whether we dealt in his capacity there or
- 5 not.
- Q. Go to image 90, 9 zero,
- 7 back to overview document 4, please. Keep my
- 8 overview documents straight. Go to overview
- 9 document 4. This is in paragraph 2, 112 and 213.
- 10 It pertains to a November 15, 2010 communications
- 11 internal to the MTO.
- 12 In paragraph 212 you see that
- 13 Frank Marciello of the MTO wrote to Becca Lane
- 14 about -- just call that up, please -- setting out
- 15 a somewhat, a very short history of the skid
- 16 testing that had taken place on the Red Hill by
- 17 the MTO to that point.
- 18 And then -- you can take that
- 19 down -- in paragraph 213, if you could pull that
- 20 up please, Ms. Lane responded:
- 21 "Good stuff, Frank. Thank
- you. Perhaps I'll call
- 23 Ludomir for a City of Hamilton
- 24 contact." (As read)
- 25 And she asked Mr. Marciello

- 1 for the most recent friction testing results from
- 2 the spring of 2010 for the Red Hill, which he
- 3 provided.
- 4 So the first of all, is Becca
- 5 Lane someone at that time who you knew at the --
- A. I know Becca, yes.
- 7 Q. Did you know her then?
- A. What timeframe is this,
- 9 2010?
- 10 Q. 2010, yes.
- 11 A. I believe I knew Becca
- 12 from CTAA and the Ontario Hot Mix Producers
- 13 functions. I had seen her present, so I knew
- 14 Becca yes.
- 15 O. She had asked
- 16 Dr. Uzarowski for a City of Hamilton contact. Do
- 17 you recall if she contacted you around 2010 around
- 18 these issues or for any other reason?
- 19 A. I don't ever remember
- 20 speaking to Becca in this regard, no.
- Q. Pertaining to --
- 22 (Speaker overlap)
- Q. -- and skid testing
- 24 issues on the Red Hill?
- 25 A. No.

- 1 Q. Thank you. Take that
- down. Go back to overview document 3, image 70,
- 3 please.
- 4 In paragraph 147 there's a
- 5 reference to a couple of papers that you were
- 6 involved with Dr. Uzarowski respecting, and these
- 7 are presented at the 2008 Annual Conference of the
- 8 Transportation Association of Canada, otherwise
- 9 known as TAC, and the first one in paragraph (a)
- 10 is the one entitled "Innovative Comprehensive
- 11 Design and Construction of Perpetual Pavement on
- 12 the Red Hill Valley Parkway in Hamilton."
- 13 I'm going to take you to your
- 14 edits to that in a minute. What do you recall
- 15 about your involvement in authoring this paper?
- 16 A. Again, it would be a
- 17 limited -- Ludomir would send me the paper or ask
- 18 for maybe a forward or what's the background or
- 19 make sure he's got the correct people, places and
- 20 times type of thing but....
- 21 O. Is it similar to the 2002
- 22 CTAA paper that we're talking about, a review and
- 23 edit and providing information function?
- A. Yes, and that's -- that's
- 25 the same for most of the papers that I was

- 1 involved with.
- Q. Which is why you're not
- 3 listed as the first author?
- A. Well, yes. They were
- 5 Ludomir's papers.
- Q. But as you said, you did
- 7 review the entire paper and you provided your
- 8 edits; is that fair?
- 9 A. Oh, I would look closer
- 10 at the sections I knew about. Once he got into
- 11 the technical and the -- I don't know that I gave
- 12 any close scrutiny to any of that. It was --
- Q. Why don't we have a look
- 14 at it. So this is -- if you look at footnote 199,
- 15 and this is what we'll be going to, call that out,
- 16 please.
- 17 You revised Dr. Uzarowski's
- 18 draft and e-mailed them -- your edits to him on
- 19 May 20th, 2008, and that's just what we're going
- 20 to have a look at. So the e-mails, the first one
- 21 there, we don't need to go to that. We can go to
- 22 Golder 7417. There's the title page of it. If we
- 23 go to image 2, call it the first paragraph. A
- 24 little hard to see here.
- Off the bat you'll see you

- 1 just added grammatically in that last paragraph
- 2 "this approach included a feasibility study." You
- 3 added the "a" grammatically, yes?
- A. That was -- a lot of my
- 5 edits were grammar.
- Q. Right. And fair enough,
- 7 but you would agree with me that if you're able to
- 8 make edits for minor and non-substantive edits for
- 9 grammar that you are looking at the paper pretty
- 10 carefully, if you're correcting grammar?
- 11 A. Oh, okay. I don't....
- 12 Q. If we go to image 3.
- 13 Under the introduction, the last two paragraphs
- 14 there, thank you.
- 15 At the end of the first
- 16 paragraph is a description of perpetual pavement
- 17 and the obtaining longer life from perpetual
- 18 pavement while -- you see in the last sentence:
- "...while replacing
- 20 periodically approximately
- 21 every 20 years. Only the
- 22 surface top 25 to
- 23 50 millimetres of the
- 24 pavement." (As read)
- 25 So you crossed out the 20 and

- 1 changed it to 14 to 17. So this is now in 2008.
- 2 Do you recall why you were changing it at that
- 3 point?
- A. That's the standard we
- 5 used in the City when we're estimating the
- 6 replacement for surface course. You don't know
- 7 whether it's 14. It could be 12 or it could be
- 8 19, it could be 22 before we got there. So to say
- 9 20 years, a hard 20 wasn't correct. It was more
- 10 appropriate to give a range.
- 11 Q. Wasn't the SMA intended
- 12 to have a longer life than be more durable, that
- 13 was one of its qualities, than the conventional
- 14 dense friction force?
- 15 A. The SMA was made not to
- 16 rut or have a higher resistance to rutting, and we
- 17 did use premium asphalt cement, so yes. It was
- 18 hoped it would give us a longer life but -- you
- 19 know, I mean it says:
- 20 "These improvements as well as
- 21 -- advance payments allows
- 22 obtaining a -- long-term
- 23 performance for asphalt
- 24 structures while replacing
- 25 periodically only the top

- 1 surface." (As read)
- I mean, that's a standard
- 3 blurb that is more correct in the 14 to 17 than it
- 4 is 20.
- 9. I think thought that the
- 6 2006 CTAA paper that you wrote with Dr. Uzarowski
- 7 back in 2005, as is the primary author, that it
- 8 referred to 20 years, and that's where this came
- 9 from. You're saying this is the standard that you
- 10 would have used for --
- 11 A. It's the rule of thumb
- 12 for the term when you would replace surface course
- 13 asphalts normally. If it lasts longer that's
- 14 good. The idea -- this paper was based -- was
- 15 about the perpetual pavement, not what surface you
- 16 chose.
- 17 Q. The next you paragraph
- 18 you see you made some again minor changes there in
- 19 the next paragraph. Go to image 4, please. In
- 20 table 1, if you could call out that second box.
- 21 Perpetual pavement there. Sorry, no wrong one.
- 22 First box. I said second; I meant first.
- 23 It's talking about the pros
- 24 and cons of deep strength, and then the next one
- 25 being the perpetual pavement. This is in --

- 1 A. Could we adjust that so
- 2 you could read it -- the people are blocking out
- 3 the -- that's better. Great. Thank you.
- Q. It said on the bottom
- 5 right there:
- 6 "A detour will be required for
- 7 some sections during pavement
- 8 rehabilitation/repair work."
- 9 And you deleted "for some
- 10 sections." We talked earlier about the detour
- 11 issue. Do you know why you deleted that one part?
- 12 A. If you are using just
- 13 normal deep strength asphalt, in order to replace
- 14 the entire section you can't have traffic on it.
- 15 So if detour will be required for all pavement
- 16 rehabilitation repair work in that regard, you
- 17 can't have traffic on it. So it's not some
- 18 sections, it's all sections.
- Q. We can go to image 5,
- 20 please. If you could expand all of section 3.0,
- 21 including the chart. Here you change some of the
- 22 wording in the text above table 2, and then you
- 23 corrected the layer thickness for the subbase and
- 24 the total thickness at the bottom there. I take
- 25 it you're correcting errors in the thickness that

- was actually placed; is that right?
- 2 A. I believe I knew that at
- 3 the time, yes.
- 4 Q. As I said, if there were
- 5 factual issues that you were aware of you would
- 6 correct them?
- 7 A. That's correct.
- Q. And then at image 6, go
- 9 there, please. It's a little hard to see there
- 10 but under figure 1, if you could call that out,
- 11 Registrar. This is a -- a little easier to see.
- 12 Again, corrections to the
- 13 layers both in conventional deep strength design
- 14 and in the perpetual pavement design you -- in the
- 15 granular layers, not the pavement layers. You
- 16 made those corrections, right?
- 17 A. Yes, I think these were
- 18 standard ones that he used and I just made them
- 19 more specific to our project.
- 20 O. Right, because that's
- 21 what it's talking about, was the Red Hill
- 22 specifically?
- 23 A. Yeah.
- Q. If we go to image 9.
- 25 Under construction 6.0, call that out.

1	A. That's good.
2	Q. Added some details about
3	the management consultant and contractor team
4	working together?
5	A. Right.
6	Q. Image 10. In the top
7	paragraph, call that out, please. This paragraph
8	is referring to degradation of the aggregates for
9	the SMA surface course in the ignition of it and a
10	description of how that was dealt with. You added
11	that:
12	"This change in testing
13	procedure has all been a
14	discrepancy in correlation
15	issues. The flexibility of
16	the owner and the consultant
17	to move past the costs
18	involved allowed the issue to
19	be resolved." (As read)
20	Yesterday I asked you if you
21	had been made aware of issues to do with the
22	aggregates in the lead up to paving. Does this
23	suggest to you that you did have some awareness of
24	some issues?
25	A. At least at the time of

- 1 this paper. This may have -- I don't -- I do know
- 2 that I was made aware of it but I don't know when,
- 3 didn't appear to be -- I don't think it was at the
- 4 time. I think I had to do some research in order
- 5 to do this but....
- Q. Research. I mean, this
- 7 is something that happened.
- 8 A. Well, yeah, but it's like
- 9 -- when I'm reading this it's like what is this
- 10 about, and then I could ask Marco or somebody.
- 11 What was this -- or even Ludomir. What was this
- 12 about? What happened here. So --
- 13 (Speaker overlap)
- 14 A. I knew prior to this or
- 15 not.
- Q. You mean talking to
- 17 someone when you say "research"?
- 18 A. Yes.
- 19 Q. But you're not sure when
- 20 you became aware?
- 21 A. No.
- Q. You could take that down,
- 23 please. Under compaction, paragraph 3. Then you
- 24 edited a sentence about paving in echelon for the
- 25 SMA course. And again, did you have -- was that

- 1 something you were aware of what they had done at
- 2 the time?
- 3 A. I knew paving in echelon
- 4 was an initiative that we instituted in. We
- 5 wanted the paving in echelon because we didn't
- 6 want any joints. So I knew that paving in echelon
- 7 was a primary consideration of our specifications,
- 8 but -- I mean, the initial thing thanks (ph) to
- 9 paving in echelon there were no particular
- 10 problems. I mean that just a re-word.
- 11 Q. Then lastly on this page
- 12 -- take that down, Registrar. Under "other
- issues" -- sorry, all three paragraphs. Just more
- 14 information and corrections specific to the
- 15 paving. Again, was that something that you were
- 16 aware of during the paving?
- 17 A. I knew the specification.
- 18 You know, you couldn't allow the trucks on the RBM
- 19 because you've only got one layer of asphalt to
- 20 support that load and you didn't want to pre-crack
- 21 the bottom of the RBM, so that was -- again, that
- 22 was in the specifications that we -- I knew was
- 23 what we wanted going in. So again, I don't see
- 24 anything here other than the -- for me to write it
- 25 clearer than....

- Q. And then last thing is
- 2 image 11, if we could go to that, Registrar.
- 3 Pavement instrumentation, if you call up those
- 4 three paragraphs. This is about the pavement
- 5 monitoring instrumentation that was installed at
- 6 the time of the construction, right?
- 7 A. Right.
- Q. And then there's some
- 9 edits that you making. The big one is there is
- 10 you are just moving some text up from -- to
- 11 upfront, right?
- 12 A. Yes.
- Q. And then there's some
- 14 other edits in there as well?
- 15 A. I was very involved in
- 16 this instrumentation and getting it in and why it
- 17 was needed and what was included in it, so this
- 18 was something I was very familiar with.
- 19 O. You can take that down,
- 20 Registrar. The level of attention to detail. I
- 21 appreciate what you said about what you were
- 22 interested in, what you were -- but is the level
- 23 of attention to detail reflected by your edits
- 24 here, something that you typically applied when
- 25 you were editing, reviewing, turning drafts on

- 1 documents with others?
- 2 A. If I'm going to be
- 3 involved in the paper and I can contribute, then
- 4 I'm not doing it from a technical point of view,
- 5 then reviewing it from a grammatical point of view
- 6 and ensuring that I was very comfortable writing
- 7 reports to council and getting technical words out
- 8 in a more straightforward, understandable, plain
- 9 English type of way. So that's what I tended to
- 10 contribute. You needed to read the paper to be
- 11 able to do that, so yes.
- 12 Q. I'm not suggesting that's
- 13 a bad thing. I'm just -- what your practices
- 14 were.
- Now, one thing that there is
- 16 not mention of in this paper is anything to do
- 17 with the MTO skid testing that took place on
- 18 October 16th, 2007. Do you know why that was not
- 19 mentioned?
- 20 A. Well, I don't, but other
- 21 than the papers about the perpetual pavement, not
- 22 the SMA. It's not about performance or problems
- 23 putting down SMA. It's about the perpetual
- 24 pavement. It's about the --
- Q. That's not quite right.

- 1 I mean, we already looked at the sections on
- 2 compaction issues that are specific to the -- they
- 3 were about SMA and about the ignition oven issues.
- 4 So overall it's about perpetual pavement, but
- 5 talked about the RBM as well, talked about the
- 6 different layers. We can go back to them if you
- 7 want, but there's specific discussion about, among
- 8 many other things, the SMA and some issues that
- 9 that arose during the placement and -- prior to
- 10 and during the placement. So in that context I'm
- 11 wondering if you know why it did not mention the
- 12 skid testing?
- 13 A. I -- my only thought is
- 14 the skid testing only tells you about the surface
- 15 that you put down. I mean, the ignition of them
- 16 was about testing of materials in general. I
- don't know that that was specific to only one
- 18 course or that it was the first course and after
- 19 that they did it a different way so it was
- 20 something that was encountered.
- 21 The placement and the RBM and
- 22 the depths and the pavement instrumentation and
- 23 the assumptions that went into it, why we did the
- 24 perpetual pavement is the primary for the paper.
- 25 It could've included it but it didn't. The paper

- 1 is what it is.
- Q. Did you have any
- 3 discussion with Dr. Uzarowski about whether the
- 4 paper should or should not include mention of the
- 5 MTO skid testing?
- A. I don't believe so.
- 7 Q. The last topic I would
- 8 like to cover now is at overview document 3, image
- 9 76, I guess 77 too. This paragraph 162 and 163
- 10 reflect a number of awards that were given in
- 11 respect of or in relation to the Red Hill Valley
- 12 project, and it's the one at 163(e) that I want to
- 13 talk about. If you could call that out,
- 14 Registrar, bottom right of image 77. Thank you.
- 15 Golder received the 2009
- 16 Ontario Consulting Engineering Willis Chipman
- 17 Award from the Consulting Engineers of Ontario for
- 18 perpetual pavement Red Hill Valley Parkway
- 19 Hamilton. That was presented on June 2nd, 2009 at
- 20 the Chateau Laurier Hotel in Ottawa. Golder paid
- 21 for Mr. Moore and his wife to attend, specifically
- 22 return airfare to/from Toronto for two nights --
- 23 sorry, for two, \$538.30 and two nights hotel at
- 24 the Chateau Laurier, \$350 plus taxes and tickets
- 25 for the event.

- 1 Do you recall that event?
- 2 A. I do.
- Q. Do you acknowledge that
- 4 this Golder offered to and paid for the
- 5 transportation, hotel and attendance at these
- 6 awards for Golder's work on the Red Hill for you
- 7 and your wife?
- A. I do, yes.
- 9 Q. The June 6th, 1995 code
- 10 of conduct and conflict of interest policy was
- 11 what was in place at the time. Did you turn your
- 12 mind to that policy before accepting this from
- 13 Golder?
- 14 A. I don't believe I did.
- 15 O. Nonetheless, as a senior
- 16 city staff member were you aware of the code of
- 17 conduct and conflict of interest policy at that
- 18 time?
- 19 A. I believe I was aware
- 20 there was one, yes.
- Q. If not perhaps all of the
- 22 specific details, I'm taking your answer? Or did
- 23 you?
- 24 A. I don't know whether I
- 25 knew all the specific details. I believe at that

- 1 time I was still manager.
- Q. In June of 2009?
- A. Yeah. Didn't become
- 4 director until September? I lose timeframe.
- Q. Were you aware at the
- 6 time that the code of conduct prohibited receipt
- 7 of gifts of more than a nominal value from any
- 8 business that has a contract with the region or
- 9 the City?
- 10 A. I couldn't quote what it
- 11 said, no, but --
- Q. Were you aware it
- 13 prohibited gifts from someone that the City is
- 14 contracting with?
- 15 A. I knew that that was the
- 16 gist of it, yes.
- Q. Are you saying that the
- 18 gist -- the nominal value part of it, that's the
- 19 exception? Was that part of the gist that you
- 20 understood, or not?
- 21 A. Well, I don't -- whether
- 22 I understood it or not, I didn't turn my mind to
- 23 it because I didn't -- I didn't at that time see
- 24 this as gifts. This was -- to me this was a work
- 25 thing. The City was involved in this consultant

- 1 receiving the highest award for engineering for
- 2 that year. We were very proud that this award was
- 3 being bestowed and to be the City's representative
- 4 there. That was I guess my view at the time.
- 5 Q. If we could just call up
- 6 the policy then. It's at HAM58896. It's image 2.
- 7 It's the second paragraph, third and fourth
- 8 paragraph. You call those out, please.
- 9 So I understand what you said
- 10 there about your reason for attending and so
- 11 forth. Did you, however, not see this as a
- 12 benefit or -- that you were receiving from Golder?
- MR. LEDERMAN: Sorry. I
- 14 thought Mr. Lewis already asked -- started this
- 15 questioning by asking Mr. Moore whether he turned
- 16 his mind in 2009 to the 1995 policy, and I
- 17 understood the witness to say he did not turn his
- 18 mind to it but had a general recollection of the
- 19 terms of it. So I'm just struggling now, having
- 20 heard that evidence, what Mr. Lewis is intending
- 21 to do to now put the specific provisions of the
- 22 policy to the witness.
- MR. LEWIS: Happy to address
- 24 that. I thought it would be helpful rather than
- 25 doing it in the abstract to have it in front of

- 1 the witness. And the next question I wanted to
- 2 ask was whether -- since Mr. Moore already said
- 3 that he did not see it as a gift, I'm going to ask
- 4 if he saw it as a benefit.
- 5 MR. LEDERMAN: I guess what
- 6 I'm struggling with to what end, what is the
- 7 relevance of this generally but -- I've obviously
- 8 sat quietly while Mr. Lewis has raised these
- 9 issues with the witness. The witness has given
- 10 his evidence with respect to it and so I'm just
- 11 raising this as a concern here.
- 12 JUSTICE WILTON-SIEGEL: Well,
- 13 you've raised two separate issues. Which one do
- 14 you want to concentrate on?
- MR. LEDERMAN: Why don't we
- 16 start with the first, which I guess is what is the
- 17 value of putting the policy, making -- questioning
- 18 him with respect to gifts versus benefits in light
- 19 of the witness's evidence that he didn't consider
- 20 the policy at the time that he was -- at the time
- 21 of this event in 2009. He told you what he viewed
- the reason or the rationale behind his attendance.
- 23 So that's the first issue.
- 24 And then the second issue is a
- 25 broader issue which is --

- 1 JUSTICE WILTON-SIEGEL: Just
- 2 dealing with the first issue. So the first issue
- 3 is, is there any merit to asking whether he saw
- 4 this as a benefit. Do you want to speak to that,
- 5 Mr. Lewis?
- 6 MR. LEWIS: Yes. I think in
- 7 fairness to the witness since the issue has been
- 8 raised we should get his perspective on it and get
- 9 his answers on it, and if his answer, as we've
- 10 already heard that he didn't turn his mind to it,
- 11 and I want to ask whether or not he saw it as a
- 12 benefit and he can give us his answer on that
- 13 question and I would like to ask whether or not he
- 14 considers it to be of nominal value.
- We could not ask those
- 16 questions and simply let it stand as it is and
- 17 interpret the policy and ask the commissioner at
- 18 the end of the day to interpret the policy against
- 19 the facts which have been acknowledged. Those are
- 20 the alternatives. But I think in fairness to the
- 21 witness we should put those questions to him.
- JUSTICE WILTON-SIEGEL: So
- 23 then let's turn to the second question, which is
- 24 the purpose of this, and I'll invite you to speak
- 25 to that.

- 1 MR. LEWIS: Well, the overall
- 2 purpose we're going to be hearing -- we anticipate
- 3 there's going to be evidence which deals with --
- 4 from later witnesses, that deals with the
- 5 relationship between city staff, including
- 6 Mr. Moore, and consultants. And this particular
- 7 instance provides some insight and colour into
- 8 those relationships.
- 9 MR. LEDERMAN: I must say I
- 10 don't understand that connection at all in terms
- 11 of insight or colour into these relationships.
- 12 He's asking him about whether he turned his mind
- 13 to this policy. He said that he didn't.
- Now he's asking him to -- he's
- 15 now asking him to put the policy in front of him
- 16 and saying how do you interpret it sitting here
- 17 today. And then saying well, either we give the
- 18 witness an opportunity to answer it or you can
- 19 just make your own conclusions from this policy.
- 20 But in my view, that doesn't answer the question
- 21 as to how one's assessment of this policy relates
- 22 in any way to the terms of reference in this
- 23 inquiry.
- JUSTICE WILTON-SIEGEL: Well,
- 25 first of all, I think it's very clear that one of

- 1 the issues in this inquiry will be the
- 2 relationship between city staff and consultants.
- 3 This is clearly one of those. So in the broadest
- 4 sense the questions about this are clearly
- 5 appropriate.
- Now, if the specific question
- 7 is did he regard this as a benefit, did he regard
- 8 this as nominal, I'm really in Mr. Moore's hands.
- 9 If he wishes to answer the question he can do so.
- 10 If he doesn't answer the question the clear
- 11 implication will be that these are not to be
- 12 treated as -- that he didn't think these were
- 13 benefits and he didn't think this was nominal; in
- 14 other words, he didn't turn his mind to the
- 15 question and ask whether perhaps this fell outside
- 16 some provision in the policy. And this -- I'm
- 17 really in Mr. Moore's hands as to whether or not
- 18 he wants to answer this question.
- MR. LEDERMAN: I have no
- 20 difficulty with having Mr. Moore answer it as long
- 21 as he's being asked -- it sounds to me like what
- 22 he is being asked about is his view of it sitting
- 23 here today in 2022, given the fact that he has
- 24 already said he did not consider the policy at the
- 25 time of the attendance at this event.

- 1 So I just want the record to
- 2 be entirely clear as to what it is Mr. Moore is
- 3 being asked to comment on sitting here today.
- 4 JUSTICE WILTON-SIEGEL: If the
- 5 question is simply avoiding -- if your objection
- 6 is to avoid asking him what his interpretation is
- 7 of the policy today I think Mr. Lewis can probably
- 8 rephrase the question in a way which avoids that
- 9 concern.
- MR. LEDERMAN: That's fine,
- 11 and I'm content to have Mr. Moore answer the
- 12 question. I just want to be clear on the value of
- 13 this.
- MR. LEWIS: To be clear, the
- 15 question I was asking was what it was at the time.
- 16 I'm looking at what I wrote (sic) from the real
- 17 time transcript and I asked him, "Did you not see
- 18 this as a benefit that you were receiving from
- 19 Golder, " and that was the intention of the
- 20 question.
- MR. LEDERMAN: Yeah, but I
- 22 guess in the face of the earlier evidence, which
- 23 is that he didn't consider the policy at the time,
- 24 I just don't know how you square that question
- 25 with what the witness has already said.

- 1 JUSTICE WILTON-SIEGEL: I
- 2 think you can simply say did he consider it a
- 3 benefit, (garbled audio) a gift, did he consider a
- 4 benefit, that's essentially what is being asked.
- 5 The fact that those words -- you can take the
- 6 words down from the screen.
- 7 MR. LEWIS: Please do that,
- 8 Registrar.
- 9 JUSTICE WILTON-SIEGEL: That
- 10 makes this line of inquiry any easier, and simply
- 11 phrase the question in those terms.
- 12 MR. LEDERMAN: Appreciate
- 13 that. Thank you.
- 14 BY MR. LEWIS:
- O. At the time, Mr. Moore,
- 16 in 2009, did you see the flight and accomodation
- in respect of this award as a benefit?
- 18 A. I have to say at the time
- 19 no, I did not.
- 20 O. Do you have a view of
- 21 what a nominal amount is, a nominal benefit or a
- 22 nominal gift would be?
- MR. LEDERMAN: Again, he's
- 24 asking, I presume, in the context of the policy.
- MR. LEWIS: No, I'm just

- 1 asking what his understanding of the concept is.
- 2 JUSTICE WILTON-SIEGEL: You
- 3 know what, Mr. Lewis, I think on this point if he
- 4 said he didn't regard it as a benefit and he
- 5 didn't regard it as a gift, the nominal feature of
- 6 this becomes moot.
- 7 MR. LEWIS: Fair enough, I'll
- 8 move on.
- 9 BY MR. LEWIS:
- Q. Do you recall, Mr. Moore,
- 11 if you discussed attending the event at Golder's
- 12 expense with Mr. Jerry Davis, who at the time was
- 13 still the general manager and your immediate
- 14 supervisor?
- 15 A. I don't specifically
- 16 recall, no.
- Q. Did you tell anyone else
- 18 that you recall?
- 19 A. Specifically no, but I
- 20 mean there was no secret I was going to be out of
- 21 the office for a couple of days and going to
- 22 Ottawa and I brought back the City's plaque type
- 23 of thing for it and showed it off in the office
- 24 and displayed it. So I mean, it wasn't a secret
- 25 that I went or was going.

- Q. Right, but did you tell
- 2 anyone that Golder was paying for your going?
- A. I mean, any time you're
- 4 going anywhere you usually had to get approval
- 5 first. Usually -- we usually involved getting a
- 6 per diem or advance or money for tickets or
- 7 whatnot, but I don't -- I don't recall preparing
- 8 any of that so that should have at least raised
- 9 some questions from at least my admin or the
- 10 general manager's admin who usually received that
- 11 type of stuff. Whether that did it at the time I
- 12 don't know, but that would have been the standard
- 13 procedure when you were going someplace.
- Q. Sorry, are you suggesting
- 15 they should have inferred that -- someone else
- 16 should have inferred that Golder was paying for it
- 17 because you had not made any request for a per
- 18 diem or travel expenses?
- 19 A. I don't know that they --
- 20 I don't know whether it -- it would -- infer to
- 21 them, but I don't specifically recall discussing
- 22 it, but these types of things usually raised
- 23 questions, you know, why don't you need this, or
- 24 why are you asking for per diem. While I don't
- 25 specifically recall any of that stuff, it seems

- 1 that it should have at least raised that
- 2 discussion.
- Q. I don't have any further
- 4 questions. Thank you, Mr. Moore.
- 5 A. Thank you.
- 6 MR. LEWIS: Commissioner,
- 7 subject to any questions that you have at this
- 8 time, I would turn it over to counsel for the
- 9 participants who have agreed on an order of
- 10 operations, which I can advise you of.
- 11 JUSTICE WILTON-SIEGEL: Fine.
- MR. LEWIS: First would be
- 13 counsel for Golder, then for --
- 14 JUSTICE WILTON-SIEGEL: For
- 15 how long?
- 16 MR. LEWIS: My understanding
- 17 it's approximately 60 minutes, unless that has
- 18 changed; then counsel for the MTO, which I
- 19 understand will be approximately ten minutes; then
- 20 counsel for Dufferin, again approximately ten
- 21 minutes; and then counsel for the City, which I
- 22 understand will be approximately 60 minutes.
- JUSTICE WILTON-SIEGEL: Okay.
- 24 So Ms. Roberts, if you're examining on behalf of
- 25 the City, we'll turn it over you to now. It's

- 1 10:53. We should probably take our break about a
- 2 quarter past in the usual manner, if that's
- 3 convenient in terms of your own presentation.
- 4 MS. JENNIFER ROBERTS: Just
- 5 for clarity, I'm counsel for Golder. I think you
- 6 said I will be examining on behalf of the City.
- 7 JUSTICE WILTON-SIEGEL: I'm
- 8 sorry. It's been a long morning for all of us
- 9 already.
- 10 JENNIFER ROBERTS: Good
- 11 morning, Mr. Moore, I'm counsel for Golder.
- 12 Commissioner, may I begin?
- JUSTICE WILTON-SIEGEL: Yes.
- 14 EXAMINATION BY JENNIFER ROBERTS:
- 15 O. Mr. Moore, you'll have to
- 16 forgive me, I'm going to jump around a little bit
- in the evidence, which is just sort of the nature
- of the process, and if there's a point at which
- 19 I'm unclear we can pause and I'll go back to the
- 20 documents. I just want to be begin though with
- 21 some of your evidence this morning.
- 22 You said -- and this is in the
- 23 context of the friction testing that was done by
- 24 MTO in October of 2007. And my understanding is
- 25 the question that was asked of you is whether

- 1 Dr. Uzarowski had recommended further
- 2 investigation and further friction testing,
- 3 whether you would have followed that. I
- 4 understand your answer to have been at that time
- 5 likely. Do you recall that?
- A. I remember saying that,
- 7 yes.
- Q. I'm going to take you
- 9 back to the Stantec NCR sustainability plan. Do
- 10 you remember talking about that yesterday?
- 11 A. Yes.
- 12 Q. Do you remember the
- 13 advice that's contained in that plan which
- 14 provides for friction testing every two years? Do
- 15 you recall that?
- 16 A. I recall that that was
- 17 what was in the plan, yes.
- 18 Q. I believe your response
- 19 was that that was a matter of ongoing maintenance
- 20 and asset management would have managed that issue
- 21 of ongoing testing. That's my recollection of
- 22 your evidence. Is that what you recall?
- 23 A. I think it was in -- I
- 24 think we went back to see what section it was in
- 25 because I thought it might have been in -- but it

- 1 was in -- I believe it was in pavement management,
- 2 so that would have fallen under -- I'm assuming
- 3 that they would have put the initiatives under the
- 4 sections who are relevant to that. If that was
- 5 asset management, if that was pavement management
- 6 then it's asset management.
- 7 Q. In any event, sir, the
- 8 point is is that that ongoing maintenance issue of
- 9 having repeat (indiscernible) study was something
- 10 for another department and not yours to deal with.
- 11 Do you understand that right?
- 12 A. That's correct.
- 13 Q. In any event, the choice
- 14 -- you told us yesterday the choice was made not
- 15 to implement the sustainability plan and not to
- 16 ongoing friction testing; is that correct?
- 17 A. That was my recollection,
- 18 that that report didn't get approved.
- 19 Q. Thank you. Just to
- 20 follow up. Was it usual for a municipality after
- 21 paving a road to implement follow-up friction
- 22 testing?
- 23 A. Other than the issues
- 24 with the Red Hill and the LINC, in my 30 years at
- 25 the City I don't remember us doing friction

- 1 testing on any other roadway.
- Q. In any event, following
- 3 your discussion with Dr. Uzarowski you didn't
- 4 understand that there was anything in the data
- 5 which would have necessitated follow-up testing?
- 6 Do I have that right?
- 7 A. I'm sorry, in regard to
- 8 what?
- 9 Q. Well, you had the
- 10 discussion. Your evidence is you had the
- 11 discussion with Dr. Uzarowski about the friction
- 12 testing and I suggest to you that there was
- 13 nothing in -- that arose from that discussion that
- 14 you understood would have necessitated follow-up
- 15 friction testing; is that correct?
- 16 A. In regard to the --
- 17 O. Yes.
- 18 A. -- we received from the
- 19 MTO?
- 0. Correct.
- 21 A. Yes. No, I did (ph)
- 22 understand that there was any follow-up that
- 23 needed to be done.
- 24 Q. Thank you. Just another
- 25 point on sustainability plan. Registrar, can you

- 1 please pull up Hamilton 320? I think I have that
- 2 right. There we have it. And could I please ask
- 3 you to turn to image 93. Can we go to the page
- 4 before, 92? I think this is the end of the body
- 5 of the report. You see the conclusions there?
- A. Yes.
- 7 Q. And then, Registrar,
- 8 please can you go to 93. As far as I can figure
- 9 the sustainability report looks as though it
- 10 doesn't even have a signing lines, and there are
- 11 certainly no signatures. Was that unusual for the
- 12 City to have reports that had no signing lines?
- 13 A. I can't say in regard --
- 14 I mean, I was a participant in this report. I
- 15 wasn't part of the team that put this report
- 16 together, so whether there was a covering letter
- 17 that sufficed that, I don't know.
- Q. In any event, whether it
- 19 was implemented or not had nothing to do with
- 20 whether there was signatures on it. That's
- 21 correct, is it not?
- 22 A. Signatures within the
- 23 report, I don't think so. I don't know.
- Q. Can we please go to
- overview document 3, image 23, paragraph 45. So

- 1 this was the perpetual pavement design study phase
- 2 2. You talked a little bit about the proposal.
- I'm not going to take you to
- 4 it, but my understanding is that in the April 10,
- 5 just as it says here, that you received the draft
- 6 perpetual pavement design study phase 2, and that
- 7 included in that e-mail the special provisions,
- 8 including the SMA (indiscernible), including SMA,
- 9 specifications and the special provisions. Do you
- 10 remember that part?
- 11 Can we go to the document? I
- 12 think that might be easiest. It's 55, which is
- 13 Golder 3739, just to frame this in reference.
- 14 This is just before you're going to tender.
- So at the top in the
- 16 attachments you can see there's a whole pile of
- 17 attachments. Is there any way of -- there they
- 18 are. Okay. Do you see that, sir?
- 19 A. I can, yes.
- 20 O. That's great. So here's
- 21 my point. So we've got the tender that's just
- 22 about to be issued. Am I right in interpreting
- 23 what happens here is that you receive the mixes --
- 24 the proposal for the pavement, the special
- 25 provisions and the specifications and those

- 1 immediately get incorporated into the tender for
- 2 the paving contract.
- A. You'll have to go back.
- 4 I'm a little -- what was received your -- are you
- 5 saying that we got the proposal to do it and he
- 6 already had some of it done and sent it directly
- 7 to us?
- 8 Q. No, no, this is later in
- 9 the timeframe. This is April of 2006.
- 10 A. Right.
- 11 Q. My understanding is
- 12 that's just before tender, correct?
- 13 A. It seems about that
- 14 timeframe, yes. So he sent us the draft or the
- 15 SPs that he wants us to incorporate, okay. I'm
- 16 sorry, what was your question?
- Q. My question was whether
- 18 these specifications and the special provisions
- 19 are what gets incorporated in the tender.
- 20 A. Yes. I don't have any
- 21 specific recall, but I mean that's what we asked
- 22 Ludomir to do, was prepare these and send them to
- 23 us and then they would be sent to the prime
- 24 consultant who was putting the tender together.
- Q. Yesterday in your

- 1 testimony commission counsel suggested to you that
- 2 in general you would want a signed copy of a
- 3 report and you responded that in general yes, but
- 4 not necessary if you're acting on the information,
- 5 it was more important to have the information. Do
- 6 you remember that evidence you gave yesterday?
- 7 A. I do.
- 8 Q. And is this an instance
- 9 where the most important thing was the content of
- 10 the report, because you were going to use it?
- 11 That's correct?
- 12 A. Well, these are
- 13 specifications. They are not a report with
- 14 conclusions or direction or recommendations. They
- 15 are output from an assignment, so they are a
- 16 little different.
- Q. Okay. Fair enough.
- 18 Let's just go to the report and I think I've just
- 19 jumped ahead too fast. 3741, please, Registrar.
- THE REGISTRAR: Sorry,
- 21 Counsel, still Golder?
- MS. JENNIFER ROBERTS:
- Q. Yes, please. Okay.
- So if I can ask you to go
- 25 through -- this is the body of the report and,

- 1 Registrar, can we please go through this because
- 2 it's got I think page 2. There we go. This is
- 3 what I understand to be the perpetual pavement
- 4 design. Do you see that, sir?
- 5 A. Okay, yes.
- Q. Does that generally
- 7 accord with your recollection of what it was?
- 8 A. Of what the perpetual
- 9 pavement was, yes.
- 10 Q. And, Registrar, can you
- 11 please turn up the next page. Page 5 I need
- 12 actually. Next one. There with go. The hot mix
- 13 asphalt specifications. You will agree with me,
- 14 sir, that this report actually provides a list of
- 15 the OPSS specifications as well as special
- 16 provisions that Golder is recommending for use in
- 17 the perpetual pavement?
- 18 A. It's a summary of them,
- 19 yes.
- Q. As we saw in the e-mail,
- 21 that list of attachments in fact included them.
- 22 Do you want to go through those specific -- or can
- 23 we take it that they are attached?
- A. Well, if they are
- 25 standard OPS I don't think they would be attached.

- 1 I think what he sent with this were the specific
- 2 amendments to those that needed to go with these.
- Q. By amendments you mean
- 4 the special provisions?
- 5 A. Special provisions, yes.
- Q. So let me rephrase my
- 7 question that I had. Would you agree with me that
- 8 this is an instance where what is important in
- 9 this report is the content so that the City would
- 10 have the specifications, special provisions to act
- 11 on and implement in the paving contract?
- 12 A. I would agree it's the
- 13 contents that are most -- at that time were most
- 14 important so we could get the tender out. This --
- 15 I don't believe this document went in the tender
- 16 so it was more of a summary to back up how our
- 17 approach was for the perpetual pavement.
- Q. So what was important was
- 19 that content, those specifications identified and
- 20 the special provisions, that's what you were
- 21 looking for and that's what you got, right?
- A. I believe so.
- Q. Thank you. I'm going to
- 24 go to a different -- I want to go back in time
- 25 now, Mr. Moore, to the preliminary design report.

- 1 That's -- Registrar, if you could please turn up
- 2 Hamilton 8905, image 18. There's a couple of
- 3 issues in here.
- 4 So 2.1.3, interchange spacing.
- 5 I just want to look at this. So this is east-west
- 6 corridor. Registrar, can you please -- east-west
- 7 corridor. So that's the Lincoln Alexander,
- 8 correct?
- 9 A. That's correct.
- Q. Can we please go to the
- 11 next image, image 19. You'll see the second full
- 12 paragraph on that list. Can you please call that
- out, Registrar, spacing of the interchanges. Up.
- 14 There we go. Thank you.
- This is for the north-south
- 16 corridor, so this is for the Red Hill. That's
- 17 correct?
- 18 A. Okay, yes.
- 19 Q. The spacing of the
- 20 interchanges in the north-south corridor was based
- 21 on an optimized -- sorry, I can't read it. It's
- 22 now too large -- optimizing traffic distribution.
- 23 "Since the major east-west
- 24 arterials in the lower
- 25 mountain are located much

1	closer than 3 kilometres
2	appropriate design measures
3	have to be taken to provide
4	adequate weaving distance
5	between ramps."
6	Do you understand this
7	correctly in this section that they generally
8	recommended distance between interchanges has to
9	be shortened to address what's need for the
10	need of that area; is that correct?
11	A. The crossing roads
12	crossing the valley were fixed. Barton Street,
13	King Street, Queenston Road. So you have to
14	design the road to fit within that framework and
15	design appropriately.
16	Q. So in the result that's
17	much closer than the two or three kilometres
18	distance between interchanges that's recommended
19	in the MTO guide, that's correct?
20	A. Yeah. I'm not sure what
21	the MTO guide is based on, whether it's a desire
22	to have a certain distance between onramps and
23	offramps and approaches and whether it's based on
24	120 kilometres an hour design speed. So the fact
25	that they have a desired distance doesn't really

- 1 -- without further explanation doesn't really come
- 2 into play here. You just have to design
- 3 appropriately.
- 4 There's standards with regard
- 5 to weaving distances and the amount of traffic
- 6 that's coming on or off and, you know, whether you
- 7 take one ramp over another ramp. Those were the
- 8 types of things that were initially considered
- 9 when the initial -- I believe this is the initial
- 10 design, preliminary design that came out --
- 11 Q. Yes, it is, you're right.
- 12 A. So there were different
- 13 orientations at that time for what -- how the
- 14 ramps were going to be oriented at each
- 15 interchange and they were significantly amended
- 16 once we went to the 2003 version after all of the
- 17 environmental concerns were addressed.
- Q. So it's actually that
- 19 evidence I'm looking for, sir. My understanding
- 20 in a general sense is that this -- the design
- 21 phase clearly was extremely protracted and that
- 22 you had a number of challenges, including
- 23 environmental ones, and what I want to understand
- 24 better, and I think, Commissioner and the public
- 25 probably does, is how it was and why it was that

- 1 sorts of design decisions were made. So I'm going
- 2 to go through a couple of these and this is one of
- 3 them.
- 4 Can we please go to overview
- 5 document 3.1 point -- at image 4. Sorry, image 5.
- 6 Go back. Got the wrong paragraph number.
- 7 Paragraph 7. So one of the issues that seems to
- 8 have been changed is the issue of the illumination
- 9 in the 1990 preliminary design report it provided
- 10 for illumination. Do you see that?
- 11 A. I see that, yes.
- 12 Q. Do you remember that?
- 13 A. I remember we changed
- 14 that.
- Q. And why was the -- first
- of all, let's just address how was it changed?
- 17 A. Well, we went to decision
- 18 point illumination eventually, so illumination
- 19 only at the interchange offramps, which was
- 20 consistent to what we did across the east-west so
- 21 I believe the -- one of the desires was to keep a
- 22 facility consistent across its entire length. So
- 23 that was one thing.
- 24 The other thing was that the
- 25 -- there were concerns in the environmental

- 1 discussions for full illumination with regard to
- 2 not only wildlife within the valley but its
- 3 implication on backyards and effect on the
- 4 adjacent residents.
- 5 Q. So could I frame that as
- 6 the issue of the lights village to the
- 7 neighbouring properties was an issue?
- A. It was one of the issues.
- 9 Q. Indeed this change
- 10 between the original preliminary design report and
- 11 the November 2003 preliminary design report that I
- think you provided comments on, that's correct?
- 13 A. Yes.
- Q. Just mention the design
- 15 criteria. Can we please go to Hamilton 50707. I
- 16 think this is the preliminary design report that
- 17 has your comments on it that you went through
- 18 yesterday. Can we please turn up image 11. Sir,
- 19 this references the design criteria that the
- 20 roadway design criteria conforming to those in the
- 21 MTO to metric design manual have been adopted for
- 22 this project. Do you see that?
- A. I see that.
- Q. Do I take it from that
- 25 what I've got is -- what that is is the 1985

- 1 Ontario guide -- sorry, 1985 Geometric Design
- 2 Standards for Ontario Highways. Is that what's
- 3 being referenced?
- A. I believe so. I don't
- 5 know whether there was a version change or
- 6 anything else. It probably should have stated a
- 7 version and a more appropriate name in the design
- 8 criteria, but I believe that's the manual that's
- 9 being referenced.
- 10 Q. In any event, it was the
- 11 MTO guidance that was referred to as -- for the
- 12 design standard -- sorry, design guide, I should
- 13 say more accurately, for the Red Hill Valley
- 14 Parkway?
- 15 A. I believe so.
- 16 Q. Thank you. Can we please
- 17 turn up image 12, table 2. So here's what I
- 18 understand to be the design criteria for the Red
- 19 Hill Valley Parkway; is that correct?
- A. Yes, it appears to be,
- 21 yes.
- Q. So let's just go through
- 23 this briefly. UFD, I've forgotten what that
- 24 means.
- 25 A. I believe it's urban free

- 1 divided.
- Q. Thank you. And the 100
- 3 -- as you said yesterday, that refers to --
- 4 A. Design speed, I think.
- 5 Q. Thank you. And so we go
- 6 down, we've got the minimum stopping distance,
- 7 it's 185 metres?
- A. That's what it says.
- 9 Yeah, I believe -- I believe they are metres, yes.
- 10 Q. The superelevation this
- 11 is the maximum superelevation, .06?
- 12 A. Usually expressed as a
- 13 percent, yes. Point -- would be 6 percent, yes.
- Q. And here the grades,
- 15 we've got maximum upgrade and downgrade of
- 16 4 percent?
- 17 A. That's what it says, yes.
- Q. I just want to go down.
- 19 We've got also the minimum radius turn. Is that
- 20 the minimum radius on the main line of the Red
- 21 Hill?
- 22 A. Given that it says "urban
- 23 freeway divided 100," yes, I would say these are
- 24 all main line standards.
- Q. You gave evidence

- 1 yesterday that the detailed design was done by
- 2 three consulting firms, Stantec, Philips and
- 3 McCormack Rankin?
- 4 A. Yes.
- Q. I take it -- you can come
- 6 out of that document now. As part of the detailed
- 7 design drawings were prepared by each of those
- 8 consultants, correct?
- 9 A. That's correct.
- Q. Who at the City was it
- 11 that reviewed the drawings?
- 12 A. Be myself, early in the
- 13 design I believe Marco was involved, and John
- 14 Vandermark likely.
- 0. Was John Vandermark an
- 16 engineer?
- 17 A. Yes.
- Q. Can we please go to --
- 19 A. This was for the
- 20 north-south. John -- in 2003 he wasn't involved
- 21 in the project anymore. It was just Marco, Chris
- 22 and I, may have been Jim Rockwood, depending on
- 23 whether it was environmental issues on the plans
- 24 as well.
- Q. Do I take it there were

- 1 four of you in the civil design, that would be you
- 2 and Mr. Oddi?
- A. Correct.
- Q. Can we please turn up
- 5 Dufferin -- let's go first to the overview
- 6 document, 3.1, image 10. Thank you. So this is
- 7 the part A to the Stantec. Do you see that?
- 8 Sorry. So part A of the Red Hill was part of the
- 9 Stantec design; is that correct?
- 10 A. Pritchard to Greenhill, I
- 11 believe, yes.
- 12 Q. So this depicts -- if
- 13 we're going from the top to the bottom, from the
- 14 south to the north, as it is, were turning and
- 15 then there's a reasonably steep gradient at the
- 16 top, that's where you got the 4 percent; is that
- 17 right?
- 18 A. Yeah. Yes, I believe it
- 19 was 4 percent up through the escarpment.
- 20 O. So can you please turn to
- 21 Dufferin 2534, image 2 first of all. Registrar,
- there's a column, second column in that's the
- 23 longer column. Can you please call out that.
- 24 It's quite difficult to read.
- 25 My understanding is that this

- 1 table identifies the spirals and the turns on the
- 2 Stantec section and shows what the radius of the
- 3 turns are. Do you agree with that?
- 4 A. Yes.
- 5 Q. On the Stantec section
- 6 we've got radius turns of about 700. If we go to
- 7 circular curve, the second one, 700, and then
- 8 spiral, then the second from the last is the other
- 9 circular curve that's another 700 metre?
- 10 A. Yes.
- 11 Q. Can we please then turn
- 12 to image 53 -- sorry, 54. My understanding of
- 13 this drawing is it's got a typical superelevated
- 14 sections, you can see at the top drawing and the
- 15 bottom. Do you see that?
- 16 A. I'm sorry, what am I
- 17 looking at?
- 18 Q. Looking at the depiction
- 19 at the top of that page, typical superelevated
- 20 section.
- 21 A. Right.
- Q. It's telling you -- my
- 23 understanding of this drawing is that it's telling
- 24 you where that typical superelevated section goes
- 25 by station 22 plus 430 to 22658?

- 1 A. In the northbound lanes,
- 2 yes.
- Q. If you go to the
- 4 depiction at the bottom there's another typical
- 5 superelevated section that's for the next -- looks
- 6 like it must be the next turn, 22689; is that
- 7 correct?
- A. Next curve, yes, correct.
- 9 Q. Can we please go to 55.
- 10 Again, you've got drawings depicting -- sorry,
- 11 you've got these -- typical superelevated section
- 12 for the next turn 23184 on the northbound lane,
- 13 23246 on the southbound lane. Do you see that?
- 14 A. I see that, yes.
- 0. I understand this is
- 16 Stantec describing what the superelevations are at
- 17 the turns at particular points along the
- 18 alignment. Do I have that right?
- 19 A. These are cross sections
- 20 so they are typically showing the widths of lanes
- 21 and their orientation to each other as they move
- 22 through the curve. The grades, as you're going up
- and down the hill, would obviously change and
- 24 there's usually a table associated with the curve
- 25 and coming out of the curve and through the spiral

- 1 associated that you would have to calculate what
- 2 the cross section or the superelevation is.
- 3 You'll see there's a note on
- 4 there that says S4.9 percent max. And then
- 5 there's parts on the break overs for the shoulders
- 6 that says "see table." So while it's a typical
- 7 cross section the grades and the orientation with
- 8 respect to each other change as you go through the
- 9 --
- 10 Q. It would be helpful,
- 11 Registrar, if you could please call out the first
- 12 typical superelevated section on this page, just
- 13 to make it a little easier to read. Just as you
- 14 say, the S4.9 max, that identifies the maximum
- 15 superelevation for the turn at that location?
- 16 A. I believe that's correct,
- 17 yes.
- 18 Q. I think what you are
- 19 referring to is the fact that the superelevation's
- 20 transition between where they are greatest at the
- 21 Apex of a turn and then through the spiral to
- 22 where they might come down to a tangent section?
- A. That's correct.
- Q. Can we please turn up 18.
- 25 Sorry, when you say they transition, I think the

- 1 first table we looked at at image 2 is showing you
- 2 where those -- the transition because it shows you
- 3 the circular curves to the curves. Do you want to
- 4 go back to it? Let's go back to image 2. Can we
- 5 call out the second table again. So hard to read.
- 6 I think -- am I right in understanding that this
- 7 is giving an indication of the transition that you
- 8 were just referring to?
- 9 A. So the tangent pieces of
- 10 the roadway or the straight pieces of the roadway,
- 11 they move into a curve where -- curve has a
- 12 standard, it's uniform throughout the curve, the
- 13 700 metre radius, but the point between where that
- 14 curve becomes uniform and the point on the road
- 15 that's tangent, that's where you have what they
- 16 call the spiral curve. And it's a transition, it
- 17 changes every metre as you go through from a
- 18 tangent section to the standard curve section. So
- 19 they often refer to that as the spiral.
- 20 So through a curve that has a
- 21 standard radius in this case of 700, you would
- 22 have -- usually have a -- depending on whether
- 23 there's vertical change as well, but if this was
- 24 not a flat roadway you would have a uniform
- 25 superelevation through the curve but it would

- 1 change from nothing to the full superelevation
- 2 through the spiral.
- I know that was a little
- 4 longwinded but I just wanted to make sure
- 5 everybody understood what that was about.
- Q. I think that's important,
- 7 sir, and I don't -- so what you're saying is that
- 8 there would be specific direction from the
- 9 engineer, the designer, to tell you how to
- 10 transition from the curve through the spiral curve
- 11 to a tangent. Do I have that correct?
- 12 A. There's -- I believe
- 13 there's other sheets that are profile sheets that
- 14 show the profile of the road and then you take
- that profile and you apply all of the other
- 16 guidelines in order to come up with the grades at
- 17 the edge of the pavement and the edge of the
- 18 shoulder and then you have to calculate all of the
- 19 grades below those for each level of the
- 20 earthworks below and then the first level of
- 21 granular and second level of granular and then --
- 22 usually you don't set the grades for the
- 23 pavements, it's usually based on pavement
- 24 thicknesses until you get to the top.
- Q. Can we please turn up

- 1 image 18. Thank you for that. That's helpful.
- This is just one example.
- 3 And, Registrar, can you enlarge this please for my
- 4 old and tired eyes. So this is just part of the
- 5 alignment design by Philips, but I think we can
- 6 see -- first of all, on the left side 22650, that
- 7 shows you the location of where this particular
- 8 drawing begins, and if we went to the right we
- 9 would show the end; is that correct? That's a
- 10 station?
- 11 A. I'm sorry, I think you
- 12 referred to this as Philips, but I think this is
- 13 the Stantec.
- 14 Q. Stantec. Thank you. Can
- 15 we call out just the left side of this drawing,
- 16 please. Somebody has highlighted it along the
- 17 way. But we see the station where this begins,
- 18 22650, that's correct?
- 19 A. For main line drive, yes.
- Q. Looks as though there are
- 21 percentages. As I understand this, the left side
- is showing essentially a tangent with a 2 percent
- 23 slope. On the northbound lane you see 2 percent
- 24 just below 115 and 117?
- 25 A. Oh, I see where you're

- 1 talking. Yeah, it appears so.
- Q. If we move along --
- 3 Registrar, can you please highlight or -- sorry,
- 4 can you then call out the middle section. So if
- 5 you see just below where it says 123 and then from
- 6 the below 127 you'll see there's a percent again,
- 7 and I would understand that to be the
- 8 superelevation for the turns part of this
- 9 alignment.
- 10 A. It appears to be.
- 11 Q. In other words, Stantec
- 12 has shown you where the tangent is, where the
- 13 slope is on the tangent and it's showing you here
- 14 what the superelevation is for the curve section,
- 15 correct?
- 16 A. I believe so because it
- 17 seems -- if you look down farther there seems to
- 18 be a station given there that's -- that aligns
- 19 with those points where the superelevation is
- 20 given. So I assume that that's consistent with
- 21 the other curve data that was given in those other
- 22 tables.
- 23 Q. I think so, and we could
- 24 go back but I think that would probably impose
- 25 more on the patience of Commissioner. I think

- 1 what it does is it does match and so you can cross
- 2 reference where the superelevations are actually
- 3 to be on the alignment. That's what it's supposed
- 4 to do; is it not?
- 5 A. It's been a long time
- 6 since I read drawings.
- 7 Q. Just to recap --
- 8 MR. LEWIS: Sorry, go ahead.
- 9 We're past the normal time for break and I don't
- 10 want to cut in but whenever we get to a good
- 11 natural point would be good.
- 12 MS. JENNIFER ROBERTS: I'm so
- 13 sorry, I got so excited about superelevations I
- 14 forgot to look at my clock.
- JUSTICE WILTON-SIEGEL: I
- 16 didn't want to interrupt your excitement when I
- 17 thought it was a fairly discreet section, it's
- 18 best all dealt with at once.
- 19 MS. JENNIFER ROBERTS: Thank
- 20 you for your patience, Commissioner. So let's
- 21 take our morning break, and thank you, Mr. Moore,
- 22 for your patience on this.
- 23 JUSTICE WILTON-SIEGEL: Let's
- 24 take 15 minutes and come back at couple minutes
- 25 before, two minutes before -- three minutes before

- 1 noon; is that right? No, not right. Come back at
- 2 5 to 12.
- 3 --- Recess taken at 11:37 a.m.
- 4 --- Upon resuming at 11:55 a.m.
- 5 BY MS. JENNIFER ROBERTS:
- 6 Q. Mr. Moore, I just want to
- 7 go back to a point and cover it off.
- 8 What's your understanding of
- 9 what a superelevation does?
- 10 A. I don't know whether I
- 11 can express it properly but it aids a vehicle in
- 12 transitioning around the curve of the roadway.
- Q. So it's assisting the
- 14 driver in navigating the turn. It assists with
- 15 the forces, the lateral forces on a car around a
- 16 turn, the centrifugal and centripetal. Isn't that
- 17 how it's happening?
- 18 A. I believe that's what
- 19 it's supposed to do, yes.
- Q. So you've got extreme
- 21 examples, if you sort of look at the Daytona
- 22 dramatic track, for instance. Consider that with
- 23 like a superelevation of I think 30 percent,
- 24 30 degrees. It's assisting the car staying on a
- 25 track going very fast. But in our roadways it

- 1 achieves the much more subtle superelevations
- 2 assist in the same way. Do I have that, right?
- A. I believe that's correct,
- 4 and it's a function of speed.
- Q. I want to go back to the
- 6 Philips drawing. First of all, if we could please
- 7 call up overview document 3.1, image 13. Call it
- 8 -- thank you, Registrar.
- 9 First of all, am I right that
- 10 this is the section designed by Philips?
- 11 A. I think there's some
- 12 overlap there with the section from McCormack
- 13 Rankin, but for the most part yes.
- Q. As we go right below
- 15 Barton street that's McCormick Rankin?
- 16 A. I forget the exact
- 17 station where there's a transition there, yes.
- 18 Q. And do you agree this is
- 19 the most complicated section of the parkway in
- 20 terms of geometry?
- 21 A. It is fairly complicated
- 22 yes, and that you have to meet all the existing
- 23 crossings and incorporate the creek and the storm
- 24 water ponds and the environmental impacts, yes.
- Q. The curve linear

- 1 alignment is tracking in part the creek valley?
- A. For the most part, yes.
- Q. I think you mentioned it
- 4 earlier, that the -- you have existing cross
- 5 streets of Greenhill, King, Queenston, Barton. So
- 6 you are stuck with distances for those
- 7 interchanges on the main line?
- 8 A. Yes.
- Q. Can we please go to --
- 10 let me just say -- let's go to Dufferin 2535,
- 11 image 7, please. This is the first turn on the
- 12 Red Hill. Can you please -- Registrar if you can
- 13 please call out this drawing, in particular middle
- 14 section. No, not the table, the drawing. Thank
- 15 you. Too much please. There we go. Okay.
- 16 This is showing the -- if I
- 17 understand to be the first turn on the alignment
- 18 and this is the R420, that's the radius of the
- 19 turn?
- A. I believe so, yes.
- Q. If -- can we cross
- 22 reference, go to image 25. This is actually the
- 23 depiction on the drawings of that same turn, I
- 24 think, if we can -- top right. Can you go the box
- 25 at the top right, Registrar, so we can match this

- 1 up. Top right, very top. Bit smaller. Shows you
- 2 what this is. So this drawing shows the first
- 3 turn on the Red Hill because this is -- can you
- 4 see that, Mr. Moore?
- A. I can see that, yes.
- Q. If we go back -- you can
- 7 take out that call out now. Just placing it and
- 8 if you look at the right that's the drawing. The
- 9 one on the left tells you what the radius is. Do
- 10 I have that right? Sorry, the one on the left
- 11 tells what you the radius is for the turn and the
- 12 drawing on the right shows you the road. Got it?
- 13 A. There's a very short
- 14 curve in there that's 420 and then the very long
- 15 spiral.
- 16 Q. Okay. So can we please
- 17 -- that's the first turn. Let's go to the next
- 18 turn which is image 8. Can you please, Registrar,
- 19 just that area where you've got the two ramps and
- 20 the main line, can you call that out so we can
- 21 actually read it. Top right, please. Make it go
- 22 to the right, please. There we go.
- 23 Again, this is -- the main
- 24 line is the line through the middle and the radius
- 25 450, that's the radius for that turn; is that

- 1 correct?
- 2 A. For the curved portion of
- 3 that yes, it appears to be 450.
- 4 Q. So we've got 420. If
- 5 we're going to the north we've got a right turn,
- 6 420 left turn, 450. So we've got two tight turns
- 7 right in a row then?
- 8 A. Okay.
- 9 Q. Do you disagree with
- 10 that?
- 11 A. No.
- 12 Q. If we go please go to
- 13 image 10. Take you through this hopefully
- 14 quickly. So that's next turn. Third turn here.
- 15 Can you please call out the middle section where
- 16 those ramps are, Registrar. Thank you. There we
- 17 go. Again, this is third turn in the radius is
- 18 depicted at 690. Do you see that?
- 19 A. I see the alignment calls
- 20 it 690, yes.
- 21 O. Image 11. This is easier
- 22 to see. Can you please call -- so we can see,
- 23 yeah, thank you. This is the fourth turn and the
- 24 radius 525.
- 25 A. That's what it says, yes.

- 1 Q. The superelevations
- 2 aren't depicted on these drawings so we have to
- 3 actually go to image 71. This is Philips. This
- 4 is again a cross section of the left side.
- 5 There's a cross section for a tangent, and on the
- 6 bottom is superelevation on expressway. Do you
- 7 see that?
- 8 A. Yes.
- 9 Q. The stations -- just as
- 10 Stantec did, it's showing locations for where this
- 11 cross section is, only here what Philips does is
- 12 it's got a cross section for superelevation but
- it's basically applying this to the whole of the
- 14 alignment that it designs, 23900 to 27. Do you
- 15 see that?
- 16 A. Yeah, I see that.
- 17 O. Do you disagree with that
- 18 interpretation, that that's the cross section
- 19 that's applied to the entirety of the Philips
- 20 section of the alignment?
- 21 A. That's what it says,
- 22 2390, 27,5 and then there's a number of asks first
- 23 that refers to, you know, different cross
- 24 sections, whether be a truck climbing lane or not
- 25 so --

- 1 Q. Those are different
- 2 stations?
- A. Different stations, yes.
- 4 Q. And you'll agree with me
- 5 -- can you please call out this superelevated
- 6 section so we can read that a little bit more?
- 7 Registrar, can you make that bottom larger, the
- 8 whole drawing? Thank you. That's it.
- 9 This applied to -- the whole
- 10 of the Philips section has got a maximum
- 11 superelevation of 6 percent.
- 12 A. It says S percent or
- 13 6 percent, so I'm not quite sure. There must be a
- 14 table some place or other direction that shows
- 15 what that is.
- 16 O. The maximum
- 17 superelevation is 6 percent. Is that how you read
- 18 it?
- A. Yeah, that's a max.
- 20 Whether it applies to that section you would have
- 21 to go to the other table that tell you what it is.
- 22 In some sections the maximum may only be 4 percent
- 23 or 4.3 percent or 5.2 percent, whatever it is for
- 24 that. It's a little now not knowing the context
- 25 or being, you know, why it said S percent or

- 1 6 percent.
- Q. Indeed, sir, so the
- 3 6 percent would apply to, for instance, the radius
- 4 for 20 turn but it wouldn't apply to the 690;
- 5 that's correct? There would be a lesser
- 6 superelevation for the less acute turn?
- 7 A. Typically that's the
- 8 case.
- 9 Q. And you would expect
- 10 though for each radius turn for the superelevation
- 11 to be identified for the turn, would you not?
- 12 A. There's got to be a table
- 13 some place and a grading that indicates what that
- 14 is. I mean, that's just -- this is just -- for
- 15 typical you wouldn't be able to calculate grades
- off of this section. I mean, the other thing
- 17 that's given is your -- the alignment drawing is a
- 18 single line but I don't know where on this cross
- 19 section that line is, whether it's the right edge
- 20 of pavement or the left edge of pavement or the
- 21 centre line of the northbound lane of the
- 22 southbound lane or the centre -- the centre of the
- 23 right-of-way all together. So you need all of
- 24 that information in order to be able to calculate
- 25 that.

- 1 Q. Wait a second. It does
- 2 show you balancing. The right side of that
- 3 drawing is the northbound lanes and it's got the
- 4 future concrete barrier and it's got the
- 5 southbound lanes on the left side.
- A. Right, but if you go to
- 7 the alignment drawing that showed you your curve
- 8 radiuses and your spiral tangents and tangents to
- 9 curves, I don't know on this drawing where that
- 10 line is.
- 11 Q. Oh, I see what you mean.
- 12 The single line that was --
- 13 A. The single line. It
- 14 didn't have five different lines, it only had a
- 15 single line. So somewhere on this drawing that
- 16 line applies to.
- 17 Q. That's an interesting
- 18 problem. So let us go to -- for instance, image
- 19 27. This is the alignment just at the King Street
- 20 interchange. Do you see that?
- 21 A. Yes.
- Q. So this is a 450 turn, I
- 23 think. So unlike the Stantec drawing can we
- 24 enlarge the main line, Mr. Registrar? That's King
- 25 Street. Main line is on the bottom. These

- 1 drawings don't show you where the superelevations
- 2 are. Do you agree with that?
- A. It doesn't appear to show
- 4 -- doesn't seem to have the same indication as the
- 5 other drawings. The consultants have different
- 6 ways of providing that information.
- 7 Q. Mr. Oddi yesterday said
- 8 that he expected there to be grading templates
- 9 which would show the detailed change in
- 10 elevations?
- 11 A. I would agree with that.
- Q. But it's not -- okay.
- 13 A. There appears to be a
- 14 centre line down this drawing which would
- 15 coordinate with the alignment drawing, that that's
- 16 -- that line is actually the centre -- the exact
- 17 centre of the two northbound and southbound lanes.
- 18 Q. I see. So is that what
- 19 you're saying, it goes through the very middle?
- 20 A. Goes through the very
- 21 middle of the median, yes.
- Q. That's the --
- 23 (Speaker overlap)
- 24 A. That's where that curve
- 25 is. That's where that curve measures that.

- 1 Q. That's helpful. Thank
- 2 you. We've heard a lot of evidence about what was
- 3 done in order to verify that the paving, mix
- 4 design met the specifications. What did Hamilton
- 5 do to ensure that the elevations and the
- 6 superelevations were constructed in accordance
- 7 with the design?
- 8 A. That's what the contract
- 9 administrator of their on-site inspection does.
- 10 The -- typically the contractor lays out the
- 11 grading stakes and provides a grade sheet for the
- 12 contract administrator to use and check the grades
- 13 and, again, it all starts with what they call a
- 14 subgrade which is the earth grade and that gets
- 15 graded and it's usually shot with a level to
- 16 ensure that it's within certain tolerances by the
- 17 CA to give the contractor approval to proceed with
- 18 the next layer. And subsequently with each layer
- 19 of granular up to -- ready to place the asphalt.
- 20 O. So there's elevations are
- 21 shot at each level of placement of granular and
- 22 then the paving and verified. Is that what you're
- 23 saying?
- A. Paving isn't typically
- 25 done, isn't typically shot. It's typically based

- 1 on depth. Once you set that final granular level
- 2 it's a very -- that final granular level has a
- 3 very tight tolerance rather than the other levels,
- 4 so that once you place -- you know, you're being
- 5 asked to place 50 millimetres or 60 millimetres,
- 6 whatever it is, of rich bottom mix. If you place
- 7 an equivalent 60 millimetres across then you've
- 8 met the grade and you subsequently build on each
- 9 layer.
- Q. Got it. Would you not go
- 11 at the final asphalt layer, verify the grades?
- 12 A. I don't know whether we
- 13 did that or not.
- Q. I just want to go -- just
- 15 look at some of these interchanges. Can we please
- 16 turn up image 23. I just want to go through. So
- 17 this is effectively beginning of that, I think
- 18 beginning of the Philips section. This is at
- 19 Greenhill?
- 20 A. Yes.
- Q. Can we please go to image
- 22 24. Goes through -- and here we've got on the
- 23 bottom we've got the lane coming off Greenhill
- 24 onto the main line?
- 25 A. Yes.

- Q. Can we please go to image
- 2 25. We looked at this before. This is where the
- 3 420, 420 radius turn is. You'll see, sir, that
- 4 the northbound lane has three lanes here; one has
- 5 just caught people coming off from Greenhill and
- 6 the next one we're going to see the exit lane. If
- 7 we can please then go to 25 -- sorry, 26. You see
- 8 that?
- 9 A. Yes.
- 10 Q. As between those two
- 11 roads that you've got an extra lane that's to
- 12 allow, as I understand it -- do I understand it
- 13 right that is there to allow traffic to come off
- 14 that Greenhill and onto the main line and then
- 15 traffic exit main line onto King?
- 16 A. Yes.
- Q. Can you please go to 27.
- 18 So we just looked at this. So again this is the
- 19 turn that's just at King Street. This is a 450
- 20 radius turn for -- headed northbound. This is a
- 21 turn to the. Left so we've got from a right turn
- 22 a left turn and we've got ramps coming off King
- 23 Street onto the main line. Do you see that?
- 24 A. Yes.
- Q. On the southbound side of

- 1 the top part of this drawing we've got the exit
- 2 from King onto the main line?
- A. Correct.
- Q. I just want to note
- 5 something and get your view on it. As I read this
- 6 we've got that ramp coming onto the main line on
- 7 effectively that 450 radius turn. You see that?
- 8 A. Okay.
- 9 Q. Am I interpreting it
- 10 right, sir?
- 11 A. Well, I mean, depends.
- 12 There's a very long speed change lane there, so, I
- 13 mean, I don't know whether it meets the roadway --
- 14 I can't be sure from this drawing exactly where
- 15 along that curve it intersects. It transitions
- 16 along the length of that all the way to Queenston
- 17 Road.
- Q. But the bullnose from
- 19 that turn is basically -- sorry, the bullnose on
- 20 that ramp looks as though -- can you please call
- 21 out the middle part of that drawing of the main
- 22 line, just the main line. So this is the ramp.
- 23 Looks as though the bullnose of that turn is
- 24 essentially where it's saying the 4.75 and the --
- 25 is it T25? You see that?

- 1 A. Are you looking at the
- 2 one going south or the one going north?
- Q. Southbound.
- A. Southbound. Okay. I
- 5 don't know where on that curve that bullnose is.
- 6 Suffice to say it's on either the spiral or the
- 7 curve proper.
- Q. Am I correct in
- 9 understanding that that's not preferred and
- 10 designed because it affects -- it affects your
- 11 site distance if you're coming onto a main line on
- 12 a turn?
- 13 A. I'm not a geometrics guy
- in what's preferred and how you handle it. I
- 15 mean, there's preference but then there's design
- 16 details and given that these went through
- 17 professional consultants providing these designs
- 18 and subsequently reviewed by MTO prior to any
- 19 tenders, I wouldn't have thought there would be
- any problem with this type of orientation.
- 21 Q. You just said something
- 22 interesting that I don't think I knew, that the
- 23 drawings for the alignment were also reviewed by
- 24 the MTO?
- 25 A. MTO was a funding partner

- of this project up to 60 percent. So they were --
- 2 I don't know what detail now, what the level of
- 3 detail was, but they were involved in all aspects
- 4 of the design and tender of this project.
- 5 Q. If I just ask the
- 6 question in terms of a more general one, given
- 7 that you have confined right-of-way where you're
- 8 building this following the creek. Am I correct
- 9 in understanding some of these geometric decisions
- 10 as a consequence of really confined space?
- 11 A. I'm not quite sure I
- 12 understand the direction. I mean, the road was
- 13 designed according to standards and within the
- 14 constraints that existed at the time.
- 15 O. Exactly what I'm trying
- 16 to understand, the constraints that it was
- 17 designed under.
- 18 A. There was challenges but,
- 19 I mean, I believe that we overcame those
- 20 challenges with more than appropriate answers to
- 21 those challenges in getting this built.
- Q. As for the exit for the
- 23 ramp coming out on the main line on the turn,
- 24 you're saying that's something the designers
- 25 accepted and end of story?

- 1 A. I don't know that that's
- 2 -- I don't know that's unique to hear. I can of
- 3 several other places along MTO roadways where
- 4 that's the case and where the ramp comes out, the
- 5 LINC ramp out onto the 403, and at Ancaster comes
- 6 out on a curve. The LINC 403 southbound comes out
- 7 on a curve. A lot of the ramps down through the
- 8 valley on 403 from Main Street and King Street
- 9 transition on curves. So it's not a unique
- 10 situation.
- If you look in our manual is
- 12 it desirable, if you are building a brand new
- 13 roadway across a flat land that might be -- this
- 14 is what you want if you can get it. But that
- 15 doesn't necessarily mean that's -- that there's
- 16 other -- not other avenues or opportunities to put
- 17 those in.
- The fact that these ramps came
- 19 down off of a curve did more than visual
- 20 opportunity for drivers merging and for drivers
- 21 allowing them to merge. The length of the speed
- 22 change lane. You may not want a very short speed
- 23 change lane, a direct ramp where you come off the
- 24 ramp and then are forced into the lane, but with a
- 25 long speed change lane especially on the

- 1 northbound lane where the lane runs all the way to
- 2 Queenston Road gives you an opportunity to be in
- 3 your lane, stay in your lane, pick your
- 4 opportunity merge if you are leaving that. And
- 5 the same with the length and speed change lane on
- 6 the King Street ramp southbound. Those are the
- 7 types of things you use to mitigate your
- 8 challenges.
- 9 Q. You're anticipating the
- 10 very place I was going to go to next. Let us just
- 11 look at that. If we now look at the northbound
- 12 lane what -- on the left side -- actually, can we
- 13 take out the call out? So we've got on the
- 14 northbound lane, which is the bottom of this
- drawing, northbound lanes, you see that in the
- 16 alignment?
- A. Hm-hmm.
- Q. We've got the entrance
- 19 onto the main line from King. Is that what that
- 20 is?
- 21 A. At the bottom, at the
- 22 east-west, north ramp, yes.
- 23 Q. If we could please go to
- 24 28, image 28. So these are the three lanes on the
- 25 main line at this point. And again, am I right in

- 1 understanding the bottom line here is the speed
- 2 change lane as people come off that ramp from King
- 3 and were just about to go on the ramp to
- 4 Queenston?
- 5 A. Two through lanes and
- 6 what they call an auxiliary lane at this point.
- 7 Q. Is that the weaving lane?
- 8 A. It fundamentally becomes
- 9 that. I mean, if people are -- there's a double
- 10 exit at Queenston Road so you don't have to get
- 11 into that lane if you want to exit. But you do
- 12 need to get out of the axillary lane if you don't
- 13 want to exit. So it gives the lane -- the
- 14 extending the lane for the entire length between
- 15 the two -- between the onramp and offramp gives
- 16 sufficient opportunity for those drivers to make
- 17 those decisions.
- Q. Can we please go to 29,
- 19 just to finish the point, the exit. As you say,
- 20 there's two exit ramps for -- this is Queenston.
- 21 A. Right.
- Q. So notwithstanding there
- 23 is actually not much distance between King and
- 24 Queenston. You're saying you provided for people
- 25 coming on and off the main line with that

- 1 additional moving lane, as it becomes.
- A. No, there's sufficient --
- 3 that weaving length, I mean I believe that we
- 4 moved the ramp to the other side of King Street to
- 5 provide for that extra lane. I mean, there's a
- 6 calculation somewhere in traffic planning that
- 7 says you're going to have this many vehicles and
- 8 if this percentage comes on and this much
- 9 percentage goes off then you should provide this
- 10 much length type of thing.
- 11 Q. Thank you. Just want to
- 12 go to the signage. It's part signage part B
- 13 drawings, Dufferin drawings again. Stantec's
- 14 design, I think. 2537. Dufferin 2537, please,
- 15 Registrar. One short point there.
- So my understanding is that
- 17 Dufferin did this -- part D drawings which include
- 18 -- is that right -- so it's providing for signage.
- 19 A. (Indiscernible reading).
- 20 Q. Can we please go to image
- 21 23. There we go. Let's just -- can we go to the
- 22 top right box so we can show the location. Thank
- 23 you. This is the area just before King Street.
- 24 So again this is the 420 radius turn.
- 25 A. Okay.

- 1 Q. This is showing the exit
- 2 and the signage for the exit, as I understand this
- 3 drawing. Let's go back to the drawing, please.
- 4 This shows the location for
- 5 the signage for this ramp. Is that what --
- A. It's showing all the
- 7 signage along the expressway, both north and
- 8 southbound.
- 9 Q. I just want to note
- 10 something. There's something missing from this
- 11 drawing. Do you know from this drawing if there's
- 12 a railway crossing?
- 13 A. There's a bridge, a grade
- 14 separation over top of the roadway at this
- 15 location.
- 16 O. Right. We can't see it
- 17 on the drawing. I think it's shown -- if we can
- 18 go back to where that top right again, I think
- 19 it's shown on that. Registrar, can we please go
- 20 back to the small box top right? Thank you. Is
- 21 that line crossing the main line. Is that where
- 22 the --
- 23 A. I believe it is, yes. I
- 24 believe that's the location, approximate location
- of the (indiscernible) crossing.

- 1 Q. Thank you, Registrar.
- 2 Can we go back to the drawing. So it's not shown
- 3 here. So you'll agree with me that Stantec's
- 4 provided for the drawing showing location for the
- 5 signage but they haven't shown where the railway
- 6 crossing is on their main drawing here.
- 7 A. I'm not sure why that's
- 8 relevant but....
- 9 Q. I'm going to suggest it's
- 10 relevant because if you got the crossing over top
- 11 of the road you can't see the sign until you've
- 12 got under the railway bridge.
- 13 A. The railway bridge in
- 14 this location is very, very high and expands way
- 15 up the slopes. So it's not like a closed portal
- 16 where it's like a tunnel. It's a very high bridge
- 17 so it doesn't restrict the view along the freeway.
- Q. I see. Mr. Oddi
- 19 yesterday evidence that it wasn't necessary --
- 20 sorry, he gave evidence and I think you agreed
- 21 largely with it, that it wasn't necessary to have
- 22 as-constructed drawings where you're essentially
- 23 constructing what was designed. Do you agree with
- 24 that?
- 25 A. I mean, if there's

- 1 changes you would like to have them recorded. If
- 2 there's not then you can -- you don't need them.
- 3 But again, I mean, if in 35 or 40 years you're
- 4 going to do changes here -- you are going to have
- 5 to go back and resurvey it anyways, so there's not
- 6 going to be any real use for as-built drawings.
- 7 It's a little different in
- 8 that this corridor is separate from a normal
- 9 roadway where you might be relocating Bell, gas,
- 10 hydro, you know. You would have a number of water
- 11 surfaces and sewer services that in the short term
- 12 future you would want to know where those are.
- 13 This is not the case. The only thing there is the
- 14 road and the structures that are apparent.
- 0. But isn't it the case,
- 16 sir, that it was the intention from the outset
- 17 that you would add lanes of traffic as soon as the
- 18 numbers, vehicle numbers warranted it? So you are
- 19 always are going to construct more here?
- 20 A. Yeah, the -- I believe
- 21 that thought was that that was not until you were
- 22 beyond the -- at least the first maintenance
- 23 requirement on the roadway. So if they had
- 24 thought it was going to be within the first
- 25 10 years it would have been more cost-effective to

- 1 build it initially, but I think the thought was it
- 2 was going to be beyond 10 to 25 years.
- Q. But before you got the
- 4 as-builts here is, in this instance at least for
- 5 the Philips section, you don't actually know --
- 6 you don't actually know much of what's necessary
- 7 to know for the alignment. You don't know the
- 8 superelevations and you don't have elevations on
- 9 these drawings.
- 10 A. Well, you're not going to
- 11 change those. You're simply going to build in the
- 12 centre when you add the lanes. That's the way it
- 13 was done as a design.
- 14 Q. So you're saying the fact
- it doesn't have that detail didn't matter?
- 16 A. Doesn't matter. You
- 17 remove the asphalt to the edge of the shoulder,
- 18 you dig out the centre portion, you add the
- 19 granular -- because even the drainage is already
- 20 all in place. You just build the centre median,
- 21 put the barrier on the overhead signs are in their
- 22 ultimate location. That's the way it was designed
- 23 so that -- there's nothing really to design beyond
- 24 that.
- Q. If the superelevations

- 1 weren't constructed as they should have been, sir,
- 2 you are just repaving over the top and repeating
- 3 it, aren't you?
- 4 A. I'm sorry?
- 5 Q. If the superelevations
- 6 weren't in fact designed or constructed as they
- 7 should have been, aren't you just repeating the
- 8 error?
- 9 A. I have no reason to
- 10 believe they weren't built as per specifications.
- 11 Q. Thank you. Those are my
- 12 questions. Thank you, Mr. Moore. Thank you
- 13 Commissioner.
- JUSTICE WILTON-SIEGEL: Ms.
- 15 McIvor.
- MS. MCIVOR: Thank you,
- 17 Commissioner.
- 18 EXAMINATION BY MS. MCIVOR:
- 19 Q. Mr. Moore, you just
- 20 stated that MTO was involved in all aspects of
- 21 design and tender of the Red Hill project. We've
- 22 now reviewed thousands of documents in this case,
- 23 all of which indicate that the City and its
- 24 contractors set the design standards for the
- 25 project and devised all of the tender documents.

- 1 We've also now heard from many other City
- 2 witnesses and contractors and none of them have
- 3 indicated that the MTO had input into this
- 4 project, and certainly not a right of approval.
- 5 Is your evidence really that
- 6 MTO personnel were involved in the design and
- 7 tender of this project?
- 8 A. Central region planning
- 9 and design was involved in this because of the
- 10 funding agreement and they reviewed our plans to
- 11 make sure which items were fundable and which ones
- 12 weren't in that regard.
- Q. And Mr. Moore, who from
- 14 the Ministry of Transportation are you referring
- 15 to?
- 16 A. I mean, Roger Hamner was
- 17 the director I think of central region at the
- 18 time.
- JUSTICE WILTON-SIEGEL: Sorry,
- 20 who?
- 21 THE WITNESS: Sorry, Roger
- 22 Hamner. I know Joe Constantino. There are others
- 23 but time obliterated their names. I can see their
- 24 faces but I can't....
- 25 BY MS. MCIVOR:

- 1 Q. Is your evidence there
- 2 was a funding agreement that gave MTO input or a
- 3 say in how the Red Hill was ultimately designed?
- A. Absolutely. When the
- 5 funding was withdrawn there were years of constant
- 6 meetings between the City and MTO with what could
- 7 be -- what could be lived with in terms of
- 8 alignment and how would it tie in with the QEW
- 9 interchange. The eventual agreement between our
- 10 regional chair and the minister on the funding
- 11 between MTO taking the QEW and the City getting
- 12 the 403 interchange. All of that was ongoing from
- 13 the time that we started the project and flipped
- 14 to the east-west.
- 15 O. So, Mr. Moore, I
- 16 understand and appreciate that MTO has
- 17 jurisdiction over the interchange from the OEW.
- 18 Are you indicating that MTO has jurisdiction over
- 19 the main line of the Red Hill in terms of this
- 20 being a joint provincial/municipal project?
- 21 A. They were a funding
- 22 partner.
- Q. Right. They were a
- 24 funding partner --
- 25 A. City initiative, a

- 1 funding partner, and they were quite involved in
- 2 saying what they were going to share funding in
- 3 and what they weren't.
- Q. Right. So what you're
- 5 saying is that the province provided funding,
- 6 historical funding for this project; is that
- 7 right?
- 8 A. That's correct.
- 9 Q. Okay. And these are
- 10 discussions about the level of funding that were
- 11 drawn out over the course of several years; is
- 12 that right?
- 13 A. That's part of it, yes.
- Q. Okay. Are you going a
- 15 step further and saying that the Ministry of
- 16 Transportation had personnel that were involved in
- 17 the design of the main line Red Hill Valley
- 18 Parkway in the course of those design efforts with
- 19 Golder and with the City?
- 20 A. I don't know whether it
- 21 was to that degree. I do remember that they were
- 22 reviewing the, for lack of better words, the
- 23 tender drawings and quantities and items so that
- 24 when we submitted invoices, for lack of a better
- 25 word, for our funding that they were already

- 1 approved, that yes, we're are going to pay for
- 2 that, we're not going to pay for this.
- Q. Mr. Moore, the Ministry's
- 4 funding, if I recall, ended in -- I believe the
- 5 last payment was made in early 2005. Does that
- 6 sound accurate?
- 7 A. No, I would have thought
- 8 it wouldn't have ended until the -- it was for
- 9 60 percent I believe for the north-south portion,
- 10 so I don't know why we would get money ahead of
- 11 that unless it was -- they had upfronted some
- 12 money but I don't -- I would have expected that it
- would have been after 2007, but I don't recall.
- Q. So what I'm hearing is
- 15 that you have assumed that the MTO had some
- 16 involvement in your project, a project you
- 17 facilitated, you engaged a contractor for, you
- 18 decided on the use of materials, and you oversaw
- 19 the procurement on in 2005 and thereafter. Is
- 20 that in fact what you are saying?
- 21 MR. LEDERMAN: I think the
- 22 witness has answered the question.
- JUSTICE WILTON-SIEGEL: No,
- 24 no, Mr. Lederman. I'm going to allow this
- 25 question.

- 1 MR. LEDERMAN: Very well.
- THE WITNESS: I just want to
- 3 understand clearly. Yes, MTO was involved in our
- 4 project and did review our drawings. It's my
- 5 recollection.
- 6 BY MS. MCIVOR:
- 7 Q. And on what dates did
- 8 they review your drawings and which drawings?
- 9 A. I couldn't -- I couldn't
- 10 tell you.
- Q. You can't say. Can you
- 12 say whether that's just in the context of coming
- 13 up with their own drawings for the interchange?
- 14 A. There was a lot of back
- 15 and forth because obviously we had to meet at the
- 16 same spot coming for the -- them coming south from
- 17 the Queenston Road, or from the QEW interchange
- 18 and us coming out over the creek to meet and have
- 19 the same cross sections and (indiscernible) works.
- 20 O. My question is over and
- 21 above that, over and above what would occur for
- 22 the interchange on the QEW, is your evidence
- 23 really that MTO had a say in the drawings and the
- 24 design of the Red Hill Valley Parkway?
- 25 A. No, that's not -- I

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- 1 didn't say that they had that level of -- I'm
- 2 saying they were familiar with the drawings in
- 3 that they were reviewed for the context of
- 4 payment. If they told us, listen, the way you're
- 5 doing this isn't the way we're doing it, we're not
- 6 paying for that, that was a discussion.
- 7 O. And so our evidence will
- 8 be, I expect the MTO witnesses will say that they
- 9 are not familiar in that way with any design
- 10 drawings or any tender documents put together for
- 11 the Red Hill Valley Parkway. Does that change
- 12 your evidence?
- 13 A. No. That would surprise
- 14 me.
- Q. I trust that there are
- 16 documents to support what you are saying because
- 17 now we've provided hundreds of thousands of
- 18 documents to the inquiry, none of which indicate
- 19 that there was any sort of approval or feedback
- 20 solicited from MTO, so I trust you have documents
- 21 to support this?
- MR. LEDERMAN: I don't think
- that's an appropriate question, Mr. Commissioner.
- 24 JUSTICE WILTON-SIEGEL: We
- 25 have to remember that is not litigation at this

- 1 point. This is an inquiry.
- 2 If you put the question in
- 3 terms of are there any documents, you can allow it
- 4 to go forward. I will allow it to go forward.
- 5 BY MS. MCIVOR:
- Q. Mr. Moore, are the
- 7 documents to support your assertion that MTO
- 8 approved the design of the Red Hill Valley
- 9 Parkway?
- 10 A. I don't have any
- 11 documents.
- Q. Are there any documents
- 13 to support that the MTO had involvement in the
- 14 design of the Red Hill Valley Parkway?
- 15 A. I don't know.
- Q. And you've mentioned
- 17 Roger Hamner and Joe Constantino. In what aspects
- 18 were each of them involved in what you're saying
- 19 they were involved in?
- 20 A. I know they were, in
- 21 their positions during the work -- we did work
- 22 with them closely. We had constant meetings with
- 23 them. There were others but I can't remember the
- 24 names right now. There was one or two people
- 25 assigned to this project for the funding review

- 1 purposes.
- Q. In what years were those
- 3 meetings being held?
- 4 A. During the project.
- 5 Q. Could you be more
- 6 specific, please. The funding discussions
- 7 occurred over the course of decades. So I would
- 8 appreciate it if you could be more specific.
- 9 A. We were discussing with
- 10 the MTO about the -- all the alignment work and
- 11 how we were going to build it and that type of
- thing as early as I think '98 and through until
- 13 the end of the project, would be my recollection,
- 14 in 2007.
- Q. Mr. Moore, I'm going to
- 16 suggest to you, and it sounds like you now agree,
- 17 that MTO did not have any form of approval or
- 18 formal involvement in the design of the parkway.
- 19 Is that your evidence now?
- 20 A. I don't remember any
- 21 formal agreement that gave them that. They
- 22 definitely were involved in the review of the
- 23 drawings and the quantities for the funding
- 24 payment purposes.
- 25 Q. Will that be the evidence

- 1 as well from Golder personnel who were involved in
- the design of the Red Hill Valley Parkway?
- 3 MR. LEDERMAN: How does that
- 4 --
- JUSTICE WILTON-SIEGEL: I'm
- 6 not sure that I understand how Mr. Moore can
- 7 answer that question.
- 8 MS. MCIVOR: I'll rephrase it.
- 9 JUSTICE WILTON-SIEGEL: Yes.
- 10 BY MS. MCIVOR:
- 11 Q. Is your evidence, Mr.
- 12 Moore, that you worked collaboratively with Golder
- and personnel from MTO when designing the
- 14 specifications for the Red Hill Valley Parkway?
- 15 A. I don't know whether our
- 16 consultants were involved during our meetings with
- 17 the MTO or not.
- Q. And, Mr. Moore, you
- 19 mentioned a funding agreement. Do you know the
- 20 year that the funding agreement was executed?
- 21 A. I would say the original
- one was in either '87 or '88, because that's when
- 23 the project first got kicked off after the
- 24 consolidated hearing board approval and the final
- 25 judicial review and the province came through with

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- 1 the funding. So I'm not quite sure of the exact
- 2 timing of that agreement because it may have been
- 3 before I joined the project. And then there may
- 4 have been an amendment to that agreement when
- 5 Minister Palladini meant with our original chair
- 6 and the QEW, 403 cost came in.
- 7 Q. Mr. Moore, this may be
- 8 more appropriately put to counsel, but I trust
- 9 that those funding agreements have been produced
- 10 in the context of this inquiry?
- 11 MR. CHEN: I'll have to look
- 12 into it.
- 13 MS. MCIVOR: Commissioner, I
- 14 would just like to clarify MTO will speak to the
- 15 level of their involvement in this project, of
- 16 course. I would also request that we look into
- 17 the production of these funding agreements given
- 18 that Mr. Moore has asserted that they speak to MTO
- 19 involvement in the design of the parkway as well.
- 20 And subject to those concerns, those are my
- 21 questions.
- JUSTICE WILTON-SIEGEL: Well,
- 23 thank you. And with respect to the last point,
- 24 Mr. Chen said they will look into it and we'll
- 25 address that if and when there's an issue that's

- 1 raised.
- MS. MCIVOR: Thank you,
- 3 Commissioner.
- 4 JUSTICE WILTON-SIEGEL: It's
- 5 now 12:55. Dufferin said they had ten minutes.
- 6 Is that still your expectation?
- 7 MS. LAURION: We have no
- 8 questions at this time.
- 9 JUSTICE WILTON-SIEGEL: That's
- 10 even less than ten minutes. Then I think it would
- 11 probably would be best if we took our lunch break
- 12 now rather than starting into the City's
- 13 examination. It's five to, so let's come back at
- 14 10 past 2:00. We'll stand adjourned until that
- 15 point.
- 16 --- Recess taken at 12:56 p.m.
- 17 --- Upon resuming at 2:10 p.m.
- 18 EXAMINATION BY MR. CHEN:
- 19 O. Good afternoon,
- 20 Commissioner, Mr. Moore, I just have a couple of
- 21 questions for you this afternoon.
- To start, I would like to
- 23 continue off with a discussion where you were --
- 24 you had mentioned a formal agreement between the
- 25 MTO and the City of Hamilton or the region of

- 1 Hamilton-Wentworth. Over the lunch break we were
- 2 able to locate some documents. Our review is not
- 3 complete, Mr. Commissioner, that touched on what
- 4 Mr. Moore had raised in terms of that funding
- 5 agreement and the MTO's role in reviewing designs.
- 6 So Mr. Moore, in your
- 7 evidence, I just reviewed the real time
- 8 transcript, although we didn't recall any formal
- 9 agreement offhand, you testified that the MTO was
- 10 involved in the review of the drawings and I think
- 11 quantities for the funding payment purposes, and
- 12 as I say foreshadow we believe we may have located
- 13 some documents to that effect.
- We had just sent over to
- 15 Mr. Registrar a couple of documents, which I hope
- 16 he has received, and the first document we would
- 17 like to pull up is HAM18501.
- THE REGISTRAR: It's going to
- 19 take me two seconds to put it in. I just received
- 20 it a sec ago. I apologize.
- 21 JUSTICE WILTON-SIEGEL: Can I
- 22 ask Mr. Chen, have the other counsel seen these
- 23 documents yet?
- 24 MR. CHEN: So they are in the
- 25 database and I believe they are part of the

- 1 productions, unless my team corrects me. They
- 2 have not.
- JUSTICE WILTON-SIEGEL: Beg
- 4 your pardon?
- 5 MR. CHEN: They are part of
- 6 the productions so I believe the parties have
- 7 access to them.
- 8 JUSTICE WILTON-SIEGEL: So are
- 9 they -- do you know if they are included in the
- 10 overview document?
- 11 MR. CHEN: They are not
- 12 included in the overview document but they are in
- 13 the database.
- JUSTICE WILTON-SIEGEL: Okay.
- 15 THE REGISTRAR: If you could
- 16 just repeat the call out?
- 17 MR. CHEN: HAM18501. Thank
- 18 you, Mr. Registrar.
- 19 BY MR. CHEN:
- 20 O. Mr. Moore, this is the
- 21 first page, as you can see, is the MTO proposal
- 22 dated October 27, 1997 and there's the title
- 23 "Funding Agreement." Have you seen this document
- 24 before?
- 25 A. I may have but I don't --

- 1 I should have but I don't recall at this point in
- 2 time, no.
- Q. That's fine. Let's just
- 4 take a look at some of the bullets in this
- 5 document. If we can first start with the heading,
- 6 the first heading, "Principles."
- 7 In the first bullet, if you
- 8 have a look at that, where it says the MTO and RHW
- 9 agree to enter into an agreement whereby MTO will
- 10 contribute \$106.75 million towards implementation
- 11 costs of the parkway. The video is blocking the
- 12 words. December 31st, 1995.
- When you're done reviewing
- 14 that -- I appreciate this is a document --
- 15 A. Okay.
- Q. I appreciate this is a
- 17 document that obviously arose, was put up here and
- 18 arose out of your discussion just right before
- 19 lunch, but is that bullet here consistent with
- 20 your understanding of the arrangement between the
- 21 MTO and region of Hamilton-Wentworth?
- 22 A. I believe this is the
- 23 revised one where they take over the entire
- 24 funding for the QEW interchange. The initial
- 25 funding agreement I believe they were only

- 1 contributing 25 million towards it, and this
- 2 appears to set the -- an upset limit 106.75 for
- 3 all those costs after 1995.
- 4 O. So as I understand your
- 5 discussion with MTO counsel, there was what
- 6 appeared to me to be some dispute as to the
- 7 existence of a funding agreement at all and issues
- 8 with respect to MTO reviewing the design. So I
- 9 appreciate what you've just told me but I just
- 10 have a couple of questions about a couple of
- 11 bullets below this. So if you can take down this
- 12 call out. We don't need to call out at the
- 13 moment.
- Move down to the next image,
- 15 which is under the heading "Administration."
- 16 First, Mr. Moore, look at the first bullet.
- 17 A. Yes.
- Q. Is that consistent with
- 19 your understanding as to how this agreement
- 20 unfolded?
- 21 A. It was -- they needed to
- 22 know for cash flow purposes how we were going to
- 23 tender and how much we planned to spend each year
- 24 in general so that they could do their budgeting,
- 25 so that's what that -- that's what that bullet

- 1 would cover off.
- Q. Now, looking at the
- 3 second bullet in bold, which appears to be
- 4 (indiscernible) execution. If you can review
- 5 that. I think it might be helpful to call this
- 6 one out, Registrar. Thank you.
- 7 A. Okay.
- 8 Q. Is that consistent with
- 9 your understanding?
- 10 A. That's -- that's
- 11 consistent with my recall, that we had to send
- 12 them all those details on every contract.
- Q. Why is it that you would
- 14 have to send those contract documents which
- included, as it says there, plans and general
- 16 specifications and cost estimates and so on?
- 17 A. It would be my
- 18 understanding that they -- the previous one that
- 19 they were building what's consistent with the
- 20 approval so they would want to see what we're
- 21 actually building and that it's consistent with
- 22 the approvals we received, and as far as I know
- 23 that were building the road according to some sort
- 24 of highway specifications that they could support.
- Q. We can take that down.

- 1 Finally the third bullet under this heading, if
- 2 you can take a look at that.
- A. Right.
- Q. Does that go, in part,
- 5 the explanation you just provided with respect to
- 6 why documents were provided?
- 7 A. You wouldn't be able to
- 8 determine whether they were direct costs unless
- 9 you reviewed the documents in this regard.
- 10 Q. Right. We can take that
- 11 down, this call out.
- 12 Just take you to one last
- 13 bullet in this document under "Financial
- 14 Arrangements," the first one. In your evidence I
- 15 understood you make reference to the figure
- 16 60 percent. Is this consistent or reflect your
- 17 evidence from earlier today?
- 18 A. That was my recall, that
- 19 it was 60 percent in the north-south which was
- 20 from the QEW to Upper Gage and 50 percent in the
- 21 east-west.
- Q. Perfect. Thank you. We
- 23 can take this document down.
- 24 Perhaps we can mark that as
- 25 the next exhibit, Mr. Commissioner. I understand

- 1 it will be 37.
- JUSTICE WILTON-SIEGEL: 37?
- 3 MR. CHEN: Correct.
- 4 JUSTICE WILTON-SIEGEL: Yes.
- 5 I'll leave that to the registrar to mark.
- 6 EXHIBIT NO. 37: Funding
- 7 Agreement dated October 27, 1997, HAM18501
- 8 BY MR. CHEN:
- 9 Q. If we pull up another
- 10 document, Mr. Registrar, HAM51118. Mr. Moore,
- 11 this is an agreement dated October 22, 1998. We
- 12 have to go do the bottom. It's signed. Have you
- 13 seen this document before?
- 14 A. I don't recall
- 15 specifically.
- 16 Q. I just want to show you
- 17 the section on administration which I believe is
- 18 the next image, Mr. Registrar. Administration --
- 19 thank you.
- 20 If you can just look at these
- 21 three paragraphs, Mr. Moore. This is -- it
- 22 reflects what we saw before but I would like you
- 23 to let us know if there are any other details to
- 24 add. I understand this to be the formalization of
- 25 the proposal we looked at before.

- 1 A. I don't see any material
- 2 difference between this and what was in the
- 3 previous document in this regard.
- Q. Perfect. Thank you. If
- 5 we can make this document the next exhibit.
- JUSTICE WILTON-SIEGEL:
- 7 Hm-hmm.
- 8 THE REGISTRAR: Counsel, so it
- 9 will be Exhibit 38.
- MR. CHEN: Thank you.
- 11 EXHIBIT NO. 38:
- 12 MTO-Hamilton-Wentworth Red Hill Creek Expressway
- 13 Agreement dated October 22, 1998, HAM51118
- 14 BY MR. CHEN:
- 0. Just to change topics,
- 16 Mr. Moore. Yesterday you were asked about the
- 17 JEGEL testing. You recall that?
- 18 A. I recall that.
- 19 O. And we can take this down
- 20 now, Mr. Registrar. Could we pull up HAM61641.
- 21 This is a document that you were shown yesterday,
- 22 Mr. Moore and commission counsel and Mr. Lewis had
- 23 asked you several times the purpose for which the
- 24 JEGEL reports were commissioned. And as I
- 25 understand your evidence you testified that to the

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- 1 best of your recollection what the report itself
- 2 says is the testing was the track the performance
- 3 of the steel slag relative to the conventional
- 4 aggregate. Is that a fair recap?
- A. Yeah.
- 6 Q. So when you used the word
- 7 "performance" what did you mean by that?
- A. I guess it's the --
- 9 performance of the aggregate especially, or the
- 10 comparison of the steel slag with the aggregate in
- 11 the terms of overall roadway, you know, did it --
- 12 there was an inherent question on steel slag with
- 13 regard to the asphalt cement. That was always an
- 14 issue with steel slag in that it seemed to soak up
- 15 the asphalt cement more and tended to get brittle
- 16 faster than normal. So some of these tests would
- 17 show ravelling or loss of the fines, especially
- 18 the sand patch test, not necessarily the British
- 19 pendulum test, as I understand. That's where I'm
- 20 looking at in performance, is the overall -- is
- 21 the roadway holding up in all aspects. Is it
- 22 cracking prematurely, is it breaking apart, is it
- 23 still performing a smooth surface for the vehicles
- 24 that are travelling there.
- 25 Q. So yesterday you had used

- 1 a phrase "overall wear of the mix." Is that
- 2 consistent or reflect what the description you
- 3 just private or?
- A. Yes. In a broad view,
- 5 yes.
- 6 Q. Mr. Lewis had put to you
- 7 the purpose for skid resistance was ultimately for
- 8 traffic safety. From your understanding is there
- 9 anything in these reports that indicate that the
- 10 testing was undertaken to assess safety as opposed
- 11 to explanation just you provided?
- 12 A. We were more concerned
- 13 with the actual mix, the actual pavement, and its
- 14 performance and when we would have to replace it
- 15 and those types of things. When someone says
- 16 safety to me it usually is -- refers to the
- 17 operation of the road, which we weren't -- that
- 18 wasn't our specialty in terms of its operation
- 19 because it has so many other aspects. Our concern
- 20 here was of the road itself.
- 21 O. Thank you for that
- 22 clarification. We can take this document down and
- 23 we can bring up HAM10055.
- 24 Mr. Moore, following from the
- 25 JEGEL reports yesterday you were asked questions

- 1 from an excerpt in the pavement design and
- 2 management guide that was faxed to you by Dave
- 3 Hein on July 20th, 1999. The document you see
- 4 here was I think shown to you yesterday and --
- 5 there's the cover page.
- I just want to that understand
- 7 why this was sent to you because it was not clear
- 8 to me if we were discussing yesterday with
- 9 Mr. Lewis, and there's a little reference to a
- 10 request by you in the body of this fax. So what
- 11 is your recollection, if you have one, of why this
- 12 was sent to you?
- 13 A. I don't have any direct
- 14 recollection in that regard, but, I mean, it seems
- 15 that he's either responding to a request or giving
- 16 me -- I don't want to speculate. I don't know
- 17 really why -- you know, he's just sending me some
- 18 general information. So whether I didn't have the
- 19 knowledge to understand a previous report and he
- 20 was giving me some additional information, I don't
- 21 know.
- Q. So I just want to
- 23 understand what it is that you reviewed at the
- 24 time and understood about the contents of the
- 25 excerpts that are attached to this fax.

- 1 The next document, Mr.
- 2 Registrar, is HAM10056. This is the first page,
- 3 the excerpt from this guide, Mr. Moore. You had
- 4 testified yesterday that you were familiar with
- 5 the pavement design and management guide by TAC.
- 6 When you said you are familiar with it, what did
- 7 you mean by that?
- A. I'm aware of the guide.
- 9 In fact, I was on a TAC committee to revise the
- 10 guide sometime in late 2014, '15, I would say,
- 11 whenever the last revision came out. Before that
- 12 -- I mean, it's an all-inclusive quide. It tells
- 13 you everything from subgrade to the final
- 14 maintenance on what -- you know, it's a very
- 15 comprehensive guide. So if you're looking for
- 16 pavement information or anything like that this
- 17 would be would the guide to turn to, but it's not
- 18 -- it's not something we used routinely, or even
- 19 non-routinely, other than I was aware of the
- 20 quide.
- 21 O. Understood. Would you
- 22 have been familiar with the guide at the time you
- 23 received this fax in 1999?
- A. When was this?
- Q. This was sent to you on

- 1 July 20th, 1999.
- 2 A. 1999, I would say no.
- 3 Q. So before we go into the
- 4 excerpts of the chapter again, what was not clear
- 5 from yesterday is to what extent you reviewed the
- 6 document. Did you have a independent recollection
- 7 of receiving this document?
- 8 A. I don't.
- 9 Q. Do you have an
- 10 independent recollection of -- this may have been
- 11 answered, but by form of question, reviewing any
- 12 part of this document?
- 13 A. I don't.
- Q. I want to look at some of
- 15 the sections that you were shown yesterday by
- 16 Mr. Lewis. If we can turn to image 4. You were
- 17 asked about these two diagrams yesterday, so
- 18 starting with the top one, Mr. Moore. You
- 19 testified, you'll see some handwriting there at
- 20 the top, that that's not handwriting; is that
- 21 correct?
- 22 A. I don't recognize it to
- 23 be mine, no.
- Q. For the questions
- 25 yesterday it was not clear to me whether you had

- 1 seen this graph prior to this inquiry commencing.
- 2 Had you seen this graph before?
- A. Not that I recall, no.
- 4 Q. Yesterday you were asked
- 5 to interpret what this graph was showing and you
- 6 provided various answers and you made reference to
- 7 (indiscernible) 55 and 66. Were your answers on
- 8 this graph based on knowledge that you had at the
- 9 time in July 1999 or was that based on your
- 10 (indiscernible) when you just reviewed it
- 11 yesterday with Mr. Lewis?
- 12 A. I think yesterday was I
- 13 think the first time I really seen this or talked
- 14 about it. I don't -- I don't ever recall seeing
- 15 this before.
- 16 Q. So similarly, if we can
- 17 just scroll down, the diagram at the bottom, and a
- 18 similar question. Prior to yesterday had you seen
- 19 this diagram before?
- 20 A. I may have seen diagrams
- 21 like this before. I don't know whether it was
- 22 this one or not it and it may have been in school
- 23 but -- because it's a -- I think it's a standard
- 24 illustration type of thing. I don't have any
- 25 specific recollection of where or when I might

- 1 have seen it.
- Q. Just so we're clear. You
- 3 were asked questions by Mr. Lewis about this graph
- 4 and you provided various answers. So were your
- 5 answers yesterday on this diagram based on what
- 6 you knew at the time in 1999 or from your review
- 7 of it yesterday?
- 8 A. I think maybe I was aware
- 9 at the time that there was a difference in
- 10 macrotexture and microtexture, but I don't -- you
- 11 know, two components of aggregates and asphalt,
- 12 but I don't know beyond that whether I had any
- 13 other clear knowledge within -- in that regard.
- Q. Thank you for that
- 15 clarification.
- 16 In the next section 2.6.4
- 17 titled Uses of Friction Data -- I've lost the
- 18 image number but this is it. Thank you
- 19 Mr. Registrar. Changes in friction 2.6.3 and Uses
- 20 of Friction Data 2.6.4. Just starting with
- 21 changes in friction, Mr. Moore.
- Just to recap, you were asked
- 23 yesterday about I think the second paragraph which
- 24 refers to factors that may contribute to friction
- 25 changes. You see there are no notations here from

- 1 Mr. Hein. So it was not clear from the evidence
- 2 yesterday that -- is this a section that you have
- 3 an independent recollection of reviewing back in
- 4 1999?
- A. No, because I don't -- I
- 6 don't remember -- I don't remember seeing the
- 7 document so I don't remember specific -- any
- 8 section within it.
- 9 Q. So to the extent that you
- 10 answered questions in relation to this section
- 11 yesterday, I take it it was just based on your
- 12 reading of your knowledge as of yesterday?
- 13 A. I would have to say so,
- 14 yes.
- 15 O. And then moving -- take
- 16 that down and call out the next section, 2.6.4
- 17 Uses of Friction Data. Again, you were asked
- 18 questions by Mr. Lewis about the information in
- 19 this section, and again there are no notations
- 20 from Mr. Hein. Is this a section you had an
- 21 independent recollection for viewing back in
- 22 July 1999?
- A. No, I don't. I don't
- 24 have recollection of looking at the document.
- Q. Mr. Lewis -- it's the

- 1 fourth line down, first paragraph. Mr. Lewis
- 2 asked you if friction test data may be used in the
- 3 pavement management system to rank safety-related
- 4 rehabilitation treatments, and you had answered
- 5 that it is something that could have been used.
- 6 Was your answer based on the knowledge that you
- 7 had back in July 1999 or was it based on your read
- 8 and knowledge as of yesterday?
- 9 A. I don't -- I would have
- 10 to say it was -- I didn't have that knowledge in
- 11 1999 in that regard.
- 12 O. You can take that down.
- 13 And my last question on this document is more
- 14 generally. These excerpts you received from Mr.
- 15 Hein, would you have consulted them at any point
- 16 after this time?
- 17 A. Would I have or did I?
- 18 Q. Do you have a
- 19 recollection of doing so?
- A. No, I don't.
- Q. Thank you. You were also
- 22 asked -- now we're changing -- take that down.
- 23 Going on to another paper that Mr. Lewis asked you
- 24 about, and, Mr. Registrar, the document ID is
- 25 GOL1567. That's just the cover of the book. Turn

- 1 to image 9.
- So, Mr. Moore, Mr. Lewis had
- 3 asked, referring to table 5 at the bottom right
- 4 corner there. Mr. Lewis had asked whether you
- 5 were the one that provided the information
- 6 contained in this table to Paul Anderson, who is
- 7 the lead author of this paper, and he suggested to
- 8 you that the data must include at least results
- 9 from the JEGEL testing. Do you remember that?
- 10 A. I remember the question,
- 11 yes.
- 12 0. At the end of that
- 13 discussion about what data may or may not have
- 14 been provided, you were taken to reference 8 which
- 15 is at image 10. Mr. Registrar, could you just go
- 16 to that very quickly. It's a reference 8 which
- 17 was the, call it footnote in that table, appears
- 18 to be where the data was drawn from, and you were
- 19 asked whether you knew the author and your answer
- 20 was you did not. Do you recall that?
- 21 A. I do.
- Q. Just to close the loop on
- 23 that, do you recall providing this report to
- 24 Mr. Anderson?
- 25 A. No, I do not. I don't

- 1 recall even the existence of this report but....
- Q. That was going to be my
- 3 next question. So was yesterday the first time
- 4 that you were made aware of this report?
- 5 A. I believe it was.
- Q. We can go back to table 5
- 7 just to clarify the role that you had, Mr. Moore.
- 8 Do you have an independent recollection of
- 9 providing any historical data to Mr. Anderson for
- 10 table 5?
- 11 A. I can't say that I do. I
- 12 don't know whether I give him any copies of any
- 13 reports from the LINC work or not, I have no idea.
- Q. There's no indication
- 15 here it is there's any data other than what's
- 16 referenced in reference 8.
- 17 A. That's true.
- Q. Do you have any -- are
- 19 you able to say with any certainty whether table 5
- 20 incorporates the results from the JEGEL testing?
- 21 A. Now that I see the
- 22 (indiscernible) that's the reference to the -- to
- 23 where the information came from then I would have
- 24 to say it didn't include any of the JEGEL stuff,
- 25 otherwise the JEGEL -- if he had that it should

- 1 have been referenced in his summary at the end.
- Q. Thank you. Just looking
- 3 at the fourth column that raises the steel slag
- 4 aggregates. So we know about the LINC. I believe
- 5 you touched on this yesterday, but can you tell us
- 6 if the City of Hamilton used steel slag on any of
- 7 its street (ph) historically prior to 2002?
- 8 A. Extensively they did. It
- 9 was -- it was an approved aggregate in our list of
- 10 things for contractors to use in the pavements.
- 11 Q. Just in terms of
- 12 timeline, how far back are you thinking?
- 13 A. Well, I was only at the
- 14 region since '88, really wouldn't be familiar with
- 15 beyond -- other than -- I know that they used it
- 16 for lots of projects before that but....
- 17 O. Thank you. I just want
- 18 to confirm -- we can take this down,
- 19 Mr. Registrar. Moving on to a next point which is
- 20 largely clarification, Mr. Moore.
- 21 There's been discussion about
- 22 this your understanding of the structure of the
- 23 perpetual pavement used on the Red Hill, and Ms.
- 24 Roberts may have clarified this with you in her
- 25 questions. If you can pull up HAM50815.

- 1 Mr. Moore, yesterday you were
- 2 asked by Mr. Lewis whether the perpetual pavement
- 3 structure was as set out in the e-mail, which
- 4 shows a 40-millimetre SMA (indiscernible) -- rich
- 5 bottom layer. You said you believe it was.
- Just so I understand your
- 7 answer, was it that as of this date this is what
- 8 the perpetual pavement design was?
- 9 A. It's my e-mail so I would
- 10 -- I mean, I don't have any other recollection and
- 11 I wouldn't say any different than what I knew at
- 12 the time so....
- Q. It was probably a poor
- 14 question on my part, but if we can also bring up
- 15 just to the side a bit OD3, image 72, as a
- 16 side-by-side. You'll see photograph 2 on the
- 17 right side there with the caption "The asphalt
- 18 pavement structure on the main line of the Red
- 19 Hill Valley Parkway." I understand the binder of
- 20 course is the SP19 and SP25; is that correct?
- 21 A. Right.
- Q. That's a total of 120
- 23 (indiscernible)?
- A. It appears so, yes.
- Q. So is that your

- 1 understanding of what the final perpetual pavement
- 2 structure was?
- A. It appears to be. I
- 4 couldn't tell you when it was changed or modified
- 5 to increase those depths but....
- Q. I wasn't seeking those
- 7 details. I just wanted to make sure that what
- 8 your evidence was in terms of the design as of the
- 9 date of the e-mail that you sent and what it
- 10 ultimately was. If you take both of those down.
- 11 Mr. Moore, I think at the
- 12 start of today's examination by Mr. Lewis you were
- 13 asked a hypothetical question as to -- this is in
- 14 relation to the friction testing by the MTO -- you
- 15 were asked a hypothetical question as to what you
- 16 would have done. Mr. Uzarowski advised you that
- 17 the friction testing results obtained by the MTO
- 18 were low and recommended a more detailed
- 19 investigation be conducted. Do you recall that?
- 20 A. I think I do.
- Q. And then you were asked
- 22 whether you would follow the consultant's
- 23 recommendation that if the consultant had made
- 24 any. Does that jog your memory better?
- 25 A. Okay.

- 1 Q. In response to that
- 2 question you said that you would have likely
- 3 followed the recommendation but would have first
- 4 wanted to have a thorough discussion about it with
- 5 the consultant.
- A. Yep. I don't know
- 7 exactly what I would have done but, I mean, you
- 8 got to have that discussion and do that fulsome
- 9 investigation and look at your options. I don't
- 10 know -- I don't know what all the other conditions
- 11 were at the time but....
- Q. On that though, Mr.
- 13 Moore, I just wanted to understand what pieces of
- 14 information would be pertinent to you as part of
- 15 that thorough discussion that you mentioned before
- 16 determining whether to follow through on the
- 17 recommendation?
- 18 A. Well, it really depends
- 19 on what the recommendation was. I mean, was it
- 20 going to have an implication on cost? Was it
- 21 going to have an implication on opening the
- 22 roadway? Was it a pretty straightforward -- you
- 23 know, many additional monitoring or was there some
- 24 sort of a remedial action that needed to be
- 25 replaced. All those types of things had to be

- 1 taken -- always have to be taken into
- 2 consideration.
- 3 Q. So would an understanding
- 4 of why the friction testing results were
- 5 considered to be low in part of that discussion?
- A. I mean, yes, someone
- 7 would have to example to me why I needed to do
- 8 what you're recommending me to do.
- 9 O. So that information would
- 10 be relevant to your consideration, of course, as
- 11 to whether to follow the advice or recommendation.
- 12 That's obvious to you?
- 13 A. Yeah. What's the basis
- 14 of your recommendation, is it part science, is it
- 15 a number, is it -- or it is, you know, I've a
- 16 feeling. Hopefully those types of things are all
- 17 things you know when you're getting these
- 18 recommendations.
- Q. Thank you for that. I
- 20 promise this is the last paper I'm going to take
- 21 you to. GOL7417. You were asked questions by
- 22 Mr. Lewis of the 2008 paper titled "Innovative
- 23 Comprehensive Design and Construction of Perpetual
- 24 Pavement on the Red Hill."
- 25 I want to clarify your

- 1 involvement with this paper, and I appreciate
- 2 you're an author but I understand that
- 3 Mr. Uzarowski led the charge on this paper?
- 4 A. That's correct.
- 5 Q. In terms of your role, I
- 6 understand from your evidence that you took just a
- 7 review and edit role; is that correct?
- A. Primarily, yes.
- 9 Q. You don't recall if you
- 10 reviewed -- you would have reviewed the entire
- 11 paper or not?
- 12 A. I may have glossed
- 13 through the entire paper concentrating on the
- 14 portions that I could contribute to or have
- 15 knowledge of, but I don't even remember whether
- 16 there's a bunch of -- I wouldn't typically get
- into tables and those types of things that were
- 18 setting out certain things, although this is I
- 19 think more on the design of the current
- 20 construction.
- Q. Mr. Lewis showed you
- 22 today a minor grammar change, I think it was the
- 23 inclusion of an 'a' in a sentence, and I put to
- 24 you from that inclusion that you must have looked
- 25 at the paper pretty carefully. And just looking

- 1 at the real time transcript again, I don't believe
- 2 there is a response, or it was cut off. Just to
- 3 be fair to you, what is your response at the
- 4 suggestion that you would have looked at the paper
- 5 pretty carefully?
- A. In terms of grammar and
- 7 was it clear and concise, you know, conclusions or
- 8 recommenda- -- technical -- of a technical nature
- 9 then I don't -- I wouldn't tend to have knowledge
- 10 of or therefore review. So it was more of a
- 11 grammatical spelling to give that type of input to
- 12 it that it's -- reading it for that is not the
- 13 same as the in-depth making comments on the
- 14 findings or those types of things.
- 15 O. Thank you. If I can just
- 16 have one minute for my colleague. Apologies,
- 17 Mr. Commissioner. I just have another minute or
- 18 so.
- 19 Could we bring back up, Mr.
- 20 Registrar, HAM51118. Just as -- this is the
- 21 funding agreement. Have a look at that first page
- 22 again, Mr. Moore.
- 23 A. So this is the first
- 24 agreement.
- 25 Q. So can you scroll to the

- 1 signing page of this, which would be image 4. We
- 2 see that document signed by both parties, Mr.
- 3 Moore?
- A. Yes, we see that.
- 5 Q. I heard you, you muttered
- 6 something, but this is -- do you agree that this
- 7 is the signed -- one of the signed --
- A. I'm sorry, yes, this
- 9 appears to be the signed copy of the document.
- Q. Perfect. Now,
- 11 (indiscernible) pointed out to me that there are
- 12 amending agreements which I would like to bring
- 13 up. The first is HAM7237. You see at the top
- 14 here it says "In many agreement made
- 15 (indiscernible) 15th day of August, 2000."
- 16 A. I see that.
- Q. I won't take you through
- 18 the contents but if you can go to image 4. It's
- 19 signed by the parties?
- 20 A. Yes, the regional chair
- 21 and minister of transportation yes.
- Q. Have you seen this
- 23 document before? Do you recognize this document?
- A. I don't recognize it, no.
- 25 Q. You're aware there was an

- 1 amending agreement?
- A. I believe this is the one
- 3 that transferred the cost of the 403 interchange
- 4 to the City so -- or the region at the time.
- 5 Q. If we can make this the
- 6 next exhibit?
- 7 JUSTICE WILTON-SIEGEL: What's
- 8 that number, 39?
- 9 MR. CHEN: 39, correct.
- 10 EXHIBIT NO. 39: Amendment
- 11 Agreement signed August 15th, 2000, HAM7237
- 12 BY MR. CHEN:
- Q. Then there was another
- 14 amending agreement, Mr. Registrar, if you're
- 15 ready, is HAM7235. Mr. Moore, do you recognize
- 16 this document?
- 17 A. Just giving it a quick
- 18 read. I don't recognize it but....
- Q. But you're aware --
- 20 A. I'm aware of the
- 21 information contained within the document.
- Q. If we can also just
- 23 scroll to the signing pages so Mr. Moore sees it.
- 24 I apologize for not being helpful with the image
- 25 number. You see it's signed there, Mr. Moore?

- A. Yes, it's signed, yes.
- 2 Mayor and Ministry of Transport, yes.
- O. If we can make this the
- 4 next exhibit.
- 5 THE REGISTRAR: Exhibit 40.
- 6 EXHIBIT NO. 40: Amendment
- 7 Agreement, HAM7235
- 8 MR. CHEN: With that, those
- 9 are my questions for Mr. Moore. Thank you.
- JUSTICE WILTON-SIEGEL:
- 11 Mr. Lewis, any re-examination?
- 12 MR. LEWIS: I do have a few
- 13 questions that are all around the same issue that
- 14 Mr. Chen was just covering, just to tie off that
- 15 front end and the back end largely, and a bit in
- 16 the middle. It make sense to do that given how it
- 17 arose today in the context of cross-examination.
- 18 EXAMINATION BY MR. LEWIS (cont'd):
- 19 Q. If we could go to
- 20 overview document 3, image 4, please. This
- 21 reference here is to an update provided to mayor
- 22 and city council from Mr. Murray on September 2nd,
- 23 2002 and it sets out a summary. Are you familiar
- 24 with this document?
- 25 A. I don't know -- I don't

- 1 know that I'm familiar with the document itself
- 2 but....
- Q. It's excerpted here and I
- 4 wanted to point out a couple of things. You had
- 5 earlier indicated, I think it was when Ms. McIvor
- 6 was questioning you, you spoke of the original
- 7 funding in the late '80s, right? I think you
- 8 mentioned that. I see in the fourth bullet it
- 9 mentions 1987 the Ontario cabinet approved funding
- 10 for the project. Is that what you were talking
- 11 about?
- 12 A. That's correct.
- Q. And then the sixth bullet
- 14 it refers to a -- no, the fifth -- in 1990 the
- 15 provincial funding was withdrawn for the
- 16 north-south leg of the project. Again, you were
- 17 at the region at the time. You recall that event?
- 18 A. Absolutely.
- 19 Q. I'm sure it was a big
- 20 event?
- 21 A. Yes.
- Q. Then in the seventh
- 23 bullet down it refers to 1995 about the
- 24 reinstatement of the funding for the north-south
- 25 expressway, and I think you referred to that and

- 1 then we've seen some agreements about that that
- 2 you referred to, right?
- A. That's correct.
- Q. Including the one in
- 5 1997. I want to quickly look at that, it's
- 6 Exhibit 37. This is HAM18501, Registrar. It's
- 7 the October 27, 1997 agreement between the region
- 8 and the province.
- 9 On the second image, image 2,
- 10 under "Administration" is part of what Mr. Chen
- 11 took you to, and there's three paragraphs under
- 12 "Administration" there. In the second bullet it
- 13 refers, and you spoke about this, about the region
- 14 submitting contract documents, plans, general
- 15 specifications, et cetera, cost estimates, et
- 16 cetera, and so forth. And then it says "for
- 17 information and file purposes."
- I just want to be clear. Is
- 19 it your understanding that that is what -- that
- 20 the information was being provided for, for
- 21 information and file purposes, not approval
- 22 purposes? I think that's what you said in your
- 23 evidence, that there is no approval function. I
- 24 just want to be -- for the MTO.
- 25 A. For their information to

- 1 be used in regard to the funding. They were -- it
- 2 was to an upset limit and they were -- and we did
- 3 have to give them how much by year, but they did
- 4 review in the context of this is available for
- 5 funding and this is not available for funding.
- Q. I understand. But they
- 7 weren't approving the design or anything else.
- 8 They might have had to do with the funding and so
- 9 forth, but they weren't approving the design; is
- 10 that fair?
- 11 A. (No response).
- 12 Q. Or not?
- A. I mean, when you're
- 14 saying "the design," I mean, it's everything from
- 15 the roadway alignment through to the landscaping.
- 16 So I mean, for funding purposes this is what we're
- 17 going to build, are you going to pay for it.
- Q. And that's what the
- 19 purpose was, you're saying?
- 20 A. That's what the purpose
- 21 -- they come back and say no, we're not paying for
- that, then there's a discussion on whether there's
- 23 some changes that we can make to the design to
- 24 accommodate -- to make sure that the funding is
- 25 included.

- 1 Q. And then that same
- 2 language is in the subsequent agreement. I don't
- 3 think we have to go to that. You indicated in the
- 4 Exhibit 38 that was the subsequent agreement. It
- 5 was the same language, and I've reviewed that. Do
- 6 you agree with that?
- 7 A. I agree with that.
- Q. And then if we go to
- 9 overview document 3, image 25. Paragraph 49
- 10 indicates:
- 11 "On March 31st, 2005 the MTO
- paid the remaining \$50.62
- million of it's 106.75 million
- 14 RHVP funding commitment to the
- 15 City."
- 16 Do you see that? Does that a
- 17 --
- 18 A. I see that. I don't know
- 19 that I recall that point.
- 20 O. You don't disagree with
- 21 it though?
- 22 A. Well, I got no reason to
- 23 disagree with it.
- Q. Now, just on the timing,
- 25 because you were asked some questions about

- 1 Golder's involvement in relation to the funding
- 2 and I just want to be clear about that. We
- 3 discussed it.
- 4 You hired, for the City,
- 5 Golder in January, 2005 to do the feasibility
- 6 study for the pavement structure, right?
- 7 A. Yes.
- Q. You met with
- 9 Dr. Uzarowski on January 11, 2005 and then as the
- 10 year progressed he worked on the feasibility
- 11 study, right?
- 12 A. Okay, yes.
- Q. Ms. McIvor asked you
- 14 questions about Golder in relation to the
- 15 provision of information to the province. And you
- 16 indicated that information was provided to the
- 17 province in respect of the funding.
- So would you agree with me
- 19 that you and the City weren't providing
- 20 information to the province with respect to the
- 21 revised pavement structure in 2005 once the
- 22 funding was finalized and paid by the province?
- A. I can't say either way.
- Q. You weren't providing it
- 25 to the province?

1	A. I don't know that I
2	wasn't. I don't I don't have any other
3	evidence to show that I was or wasn't. I don't
4	recall any specific discussions with them in that
5	regard unless I was picking their brain with
6	stuff, but I don't know.
7	Q. Picking whose brain?
8	A. MTO's.
9	Q. If we could go to the
10	document that's footnoted there, it's MTO86. This
11	is a Ministry of Transportation information
12	notice. The date of it is July 21st, 2005. It
13	gives sort of a description and summary of the
14	ministry's role in supporting the Red Hill Creek
15	Expressway and in constructing the new interchange
16	to connect with the QEW. It gives an update as to
17	where things are at. Included under a suggested
18	response in answer to the question about what the
19	ministry's role is:
20	"The Red Hill Creek Expressway
21	is a City of Hamilton project.
22	Hamilton is responsible for
23	undertaking the environmental
24	assessment, design and
25	construction of the

- 1 Expressway."
- 2 So do you agree with that? I
- 3 appreciate everything else you said about what was
- 4 submitted to the province, but do you agree with
- 5 that, that was Hamilton's responsibility?
- A. I'm sorry, that what was
- 7 Hamilton's --
- Q. Hamilton is responsible
- 9 for undertaking the environmental assessment,
- 10 design and construction of the expressway.
- 11 A. That's correct.
- Q. And then that the
- 13 government -- means Ontario -- supported the new
- 14 expressway with substantial financial contribution
- 15 of 106.75 million, right?
- 16 A. That's correct.
- Q. And then it goes on to
- 18 talk about the interchange, and the QEW widening.
- 19 And then in the fax at the bottom there, that box
- 20 there, you'll see there's a reference to some of
- 21 the things we just talked about, and then in the
- 22 bullet second from the bottom the reference to the
- 23 MTO paying the remaining \$50.62 million of its
- 24 funding commitment on March 31st, 2005. Do you
- 25 see that?

1	A. I see that.
2	Q. Again, you don't disagree
3	that that was the ending of the funding by the
4	province?
5	A. Financially, yes. I
6	don't know whether there's any claims beyond that
7	for additional works. There's something in my
8	mind that there was, but I think that had to do
9	with us doing landscaping work in the QEW and
10	other remedial works on their behalf.
11	Q. We're talking about the
12	Red Hill main line here.
13	A. Yes. For the Red Hill
14	main line, yes.
15	Q. And then top of the
16	second page, the next image. Under "Current
17	Status" it says:
18	"The 1998 legal agreement
19	between MTO and Hamilton was
20	terminated on March 31, 2005.
21	However, MTO entered into
22	another agreement indicating
23	that MTO would design and
24	construct the QEW RHCE
25	interchange and associated QEW

1 works at no cost to the City. 2 Current estimate is \$110 3 million." 4 Is that consistent with your 5 recollections? 6 Α. I believe that's correct. 7 MR. LEWIS: I don't have any 8 other questions. Thank you. 9 JUSTICE WILTON-SIEGEL: Well, 10 first of all, thank you, Mr. Moore. It's been a long almost two days. I appreciate you appearing 11 12 before the inquiry. 13 I understand because of some 14 staff who might have COVID, we've had to 15 re-arrange the schedule a little bit and, as a 16 result, we won't be advancing tomorrow's witness till this afternoon. If that remains the case 17 18 then I think we're adjourned until 9:30 tomorrow 19 morning. Thank you very much. 20 --- Whereupon at 3:16 p.m. the proceedings were 21 adjourned until Wednesday, May 11th, 2022 at 22 9:30 a.m. 23 24 25