

WITNESS INTERVIEW TRANSCRIPT

Corradino Group

Miami, FL

HWY18MH09

(47 pages)

UNITED S	TATES OF AMERICA
NATIONAL TRANS	PORTATION SAFETY BOARD
<pre>* * * * * * * * * * * * * * * * * Investigation of: PEDESTRIAN BRIDGE COLLAPSE MIAMI, FLORIDA MARCH 15, 2018 * * * * * * * * * * * * * * * * * Interview of: ALEXIS MOLINA</pre>	* * * Accident No.: HWY18MH009 * *
Corradino Grou	p
	Sweetwater City Hall Sweetwater, Florida Monday, April 9, 2018

APPEARANCES:

KENNETH BRAGG, Accident Investigator National Transportation Safety Board

DAN WALSH, Senior Highway Accident Investigator National Transportation Safety Board

REGGIE HOLT, Senior Bridge Engineer Federal Highway Administration

MARK CROFT, Vice President of CEI Corradino Group

DOUG CREST, Attorney (On behalf of the Corradino Group) 2

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1	INTERVIEW
2	(10:25 a.m.)
3	MR. BRAGG: Today is Monday, March 9, 2018. The time is
4	10:25 a.m. and we are located in the Sweetwater City Hall building
5	in Sweetwater, Florida.
6	My name is Kenneth Bragg. I'm an investigator from the
7	Office of Highway Safety with the National Transportation Safety
8	Board. I'm going to go around the room, starting to my right, and
9	ask everyone to state their name and organization.
10	MR. WALSH: Dan Walsh, National Transportation Safety Board.
11	MR. HOLT: Reggie Holt, Federal Highway Administration.
12	MR. CROFT: Mark Croft (ph.), the Corradino Group.
13	MR. CREST: Doug Crest (ph.), the attorney for the Corradino
14	Group.
15	MR. MOLINA: Alexis Molina, senior inspector, Corradino
16	Group.
17	MR. BRAGG: Okay.
18	INTERVIEW OF ALEXIS MOLINA
19	BY MR. BRAGG:
20	Q. Mr. Molina, what do you do for your company? What's your
21	position?
22	A. Senior inspector.
23	Q. Senior inspector? And in layman's terms, what do you tell
24	me what that is in layman's terms. What do you do?
25	A. Well, my background you're talking about, right?

4

1	Q.	Yes.
2	А.	You know, well, I graduated for civil engineering in 1988 in
3	Cuba.	. I start, like, inspector in 2002 here in Miami. And I'm
4	senio	or inspector from 2007. And I start with Corradino Group in
5	3	years ago.
6	Q.	Okay. And what's the name of the, what's the name of the
7	compa	any again?
8	A.	Corradino Group.
9	Q.	Spell it for me, please.
10	А.	C-O-R-R-A-D-I-N-O.
11	Q.	Okay. And this is, this is more so for the transcriber.
12	Spell	your last name, please.
13	Α.	Yes. A-L-E-X-I-S.
14	Q.	Okay, that's your first name.
15	Α.	My first name.
16	Q.	Okay, and last
17	Α.	M-O-L-I-N-A.
18	Q.	Okay. And how long have you been with them, the company?
19	Α.	Three years.
20	Q.	Three years. When did you become involved in this project?
21	Α.	July 6, 2017, I start the project.
22	Q.	And what's your role in the project?
23	A.	Senior inspector.
24	Q.	Senior inspector? And describe briefly what you, what you've
25	done	in the project.

Well, like, verification inspection. Means I be part of the 1 Α. 2 CEI team as construction engineer inspection. My main role there 3 was about post-tension, but also working on other parts of the 4 project like piledriving, concrete, et cetera. But basically it's 5 more about post-tension. 6 Okay. And what was your involvement in the move from the Ο. 7 fabrication position to over the roadway? 8 Yeah, the last day, right? Α. 9 Ο. Yes. The move. Well, I was working Saturday the 10 The last day. Α. 11 10th from 8:00 to 5:00. So I served the move and was checking the 12 MOT, the detour signs. But basically I was there for check the 13 stress, tendons, PT bars element 11 and 2. 14 Q. Okay. 15 MR. BRAGG: And I'm going to let Dan -- you want to go ahead 16 and start something? 17 MR. WALSH: Okay. Dan Walsh, NTSB. 18 BY MR. WALSH: 19 Were you present during the initial tensioning of the bridge Q. at the construction site before the move --20 21 Α. Yes. -- when the falsework was in place? Were you -- did you 22 Ο. 23 observe that initial tensioning? 24 Α. Yes. 25 What did you observe during that initial tensioning? Q. Okay.

- 1 A. In general, all the --
- 2 Q. Yes.

3 A. -- post-tension elements of the bridge --

- 4 Q. Correct.
- 5 A. within stressing, right?
- 6 Q. Correct.
- 7 A. Because I was dividing the installation and the stressing.8 Q. Correct.

9 And grouting. Okay. Stressing, basically the more important Α. 10 thing is check the elongation, because the elongation is a 11 confirmation that the, that the force required for each tendon is 12 transferred to the tendon. So I assert the good condition of the 13 equipment. I assert and verify that the constructor followed the 14 procedures that they submitted. Also the specification and the 15 plans. So it's basically that. And do my log field, you know, my 16 -- record that information.

17 Q. During your assessment, do you verify the maximum tensioning 18 that is performed? So do you, do you verify the maximum 280 kips? 19 Yes. Yes, I have to verify if the calibration is right and Α. check the load the contractor submitted and check if that jack has 20 21 that -- and also see the gauge, if they follow that pressure. 22 So go step by step how you do that. Do you, do you actually 0. 23 look at the gauge to verify that the, that the maximum kip has 24 been reached or -- was it 280 kips? Was that the maximum? 25 Is different. Depends. Because the -- remember, the Α.

1	strands, we have transverse tendons, we have longitudinal tendons
2	and we have PT bars. So
3	Q. Okay, just
4	A it's in the records.
5	Q. Just for the PT bars.
6	A. Okay.
7	Q. Was that a maximum 280 kips for the, for the PT bars, do you
8	recall?
9	A. No, I don't recall that. In fact it's in, it's in the
10	records, you know. It's in the
11	Q. Okay. But you do verify, looking at the gauge, whether that
12	meets specifications.
13	A. Yes. Sure.
14	Q. Okay. And you did you do that on the initial tensioning
15	that was done
16	A. Yes.
17	Q at the when the falsework was underneath the bridge at
18	the construction site?
19	A. Oh you're talking about all the stressing operation?
20	Q. Right. Just the initial
21	A. Yes. I was present all the time. Yeah.
22	Q. So did you find the initial tensioning met specifications?
23	A. Yes. Based on the log, based on the, on the procedurals and
24	based on the log, the contractors who made it, yes.
25	Q. Okay. When was that initial tensioning done on the, on the

1	main span? Do you recall the day the initial tensioning
2	A. Well, basically installation I have installation was
3	from when I, when I start, July 2017, from January '18. So they
4	start stressing in the middle of January. Stressing and grouting.
5	They have to combine both because they need to have 14 days
6	between stressing and grouting.
7	Q. So initial tensioning of the bridge was in January 2018.
8	A. Right.
9	Q. Okay. Was it done how many days did it take?
10	A. Well, they done with the stressing on around February. I
11	don't know exactly the name. It's in, it's in the records, you
12	know.
13	Q. Right. Around February.
14	A. Yeah, February. I recall that the last day that they grouted
15	was February 20. I remember that.
16	Q. And how long does it take to do tensioning of, say, one PT
17	bar? How long does it generally take?
18	A. Well, that varies too much, because depends how hard is it in
19	the cavity of the blister, how hard is to put the jack, you know?
20	So that varies too much, you know. I can't tell you one exact
21	time, because it could be 15 minutes, it could be one hour.
22	Because they need to remove, they need to move again, they need to
23	clean, put the jack again. So it's a process that varies too
24	much, you know.
25	Q. It varies okay. How would you put a minimum and maximum

1	time on it? It could vary from
2	A. One PT bar, for example?
3	Q. Yeah.
4	A. One bar.
5	Q. Right.
6	A. So from where? From they install the jack or from all the
7	process? Because they need the crane, take the jack on top, fix
8	it, fix it again, move again, put it back, so
9	Q. Just the
10	A. In general? In general?
11	Q. In general. In general, time frame including the, including
12	the crane, and then a time frame just for the PT bar itself. Just
13	a rough approximation.
14	A. Probably 30 minutes from 1 hour and a half, probably.
15	Q. Okay. Okay. All right.
16	A. Yeah, that varies too much because, depending on the
17	(indiscernible) of the bar, depending on the jack, how heavy it
18	is.
19	Q. Okay. After the initial tensioning was done to the, to the
20	main span, did you observe any cracks on the main span of the
21	bridge?
22	A. Yes. The first, the first crack that I observed was in
23	and reported was February 13. And that was small cracks in the
24	middle of the truss element 10 and 3. And was after the
25	contractor stressed elements 11 and 2, and also they already

1	stressed the longitudinal tendons in the deck. So small cracks,
2	when I say small, I'm talking about 0.004 to 0.006. I know
3	because I checked with the little card that I have. And that's
4	classified, like, cracks A. So I report that info to my PA and to
5	my senior inspector about that. That was the first crack that I
6	observed. February 13, around
7	Q. Did you, did you take photographs
8	A. Yes, sure.
9	Q of those cracks? Do you still have those photographs?
10	A. I put everything in the server, in the BPA server. I have to
11	check in my computer if I download it. But they have it. They
12	have it.
13	Q. Okay, and we would like a copy of that, of those photographs.
14	A. Okay. All right.
15	Q. Okay? We're requesting, officially requesting now a copy of
16	those photographs, if we can have them.
17	MR. MOLINA: Okay. If I have them, I have them.
18	MR. WALSH: Have a copy of those photographs.
19	MR. CREST: And just so I'm clear, just specifically those
20	photos from that day?
21	MR. WALSH: No. Well, we'll be, we'll be wanting, you know,
22	all photographs for all
23	MR. MOLINA: Okay.
24	MR. WALSH: As this, as this proceeds, from that time frame
25	to the collapse, we would like all of those photographs, and

1	categorized by day when they were taken, each day they were taken.
2	MR. MOLINA: Okay.
3	BY MR. WALSH:
4	Q. And can you give a sense I mean, did you take photographs,
5	I mean, every day?
6	A. Every day.
7	Q. Every day. Okay.
8	A. That's one of the our role, like, as senior inspector.
9	You know, take pictures of operations and everything that happened
10	there. That was the first cracks.
11	Q. We'd like to have those photographs, and categorized by each
12	day. Did you make, did you make emails? Did you send emails
13	A. Well, that day, that day sorry. That day I sent pictures
14	and the PA, in case of that first cracks, my PA and my senior
15	project engineer told me send the report by email to them, and we
16	going to pass to the prime contractor that you are. But I did
17	that for that specific report. So I have pictures showing the
18	location and the classification of the, of the cracks.
19	Q. That's great. And that was sent to Mr. Urdaneta? Was
20	that
21	A. Yeah. Rafael Urdaneta.
22	Q. Rafael.
23	A. And Jose Morales.
24	Q. Okay. So both Rafael that was sent to both Rafael and
25	Jose.

	l	
1	Α.	Yes.
2	Q.	Okay. We would like a copy of those emails
3	Α.	Okay.
4	Q.	and that correspondence. And all correspondence regarding
5	thos	e photographs that were taken.
6	Α.	Okay.
7	Q.	Not only on that day, but each day that you had sent a
8	corr	espondence to Rafael and Jose regarding those photographs. So
9	is -	- I just want to summarize, just to make clear that on
10	Febr	uary 13, when the restressing no, when the stressing was
11	done	to number 2
12	Α.	Two and eleven was stressed.
13	Q.	Two and eleven.
14	Α.	Two and eleven. And some longitudinal tendon in the deck.
15	Q.	Okay. Number 2 and number 11, and the longitudinal, and
16	long	itudinal
17	Α.	Longitudinal PT strands.
18	Q.	PT strands?
19	Α.	Yeah.
20	Q.	In the deck.
21	Α.	In the deck, yes.
22	Q.	Once that was done, then you observed cracks
23	Α.	Right.
24	Q.	between 10 and 3.
25	Α.	Yes, that's between element 10 and 3. In the middle of the,

1	of the truss, small cracks around the element.
2	Q. Okay. Around 10 and 3.
3	A. Yes.
4	Q. Around 10 you saw
5	A. In the report it's exactly, you know, the okay, the
6	distance from the, from the deck and the specific width of those
7	cracks.
8	Q. Okay. That's great.
9	A. And the location too.
10	Q. Okay. Do you recall being onsite Saturday, February 24 at
11	the on the construction site?
12	A. February 24.
13	Q. When they Saturday, February 24 when they were removing
14	the falsework from the middle and going removing the falsework
15	going out
16	A. And leaving just the shoring.
17	Q. Right. And leaving the shoring. Do you recall being
18	A. I don't remember if I'm being there because, at that time I
19	was different assignment on (indiscernible) Avenue. So I don't
20	remember exactly that day.
21	Q. That day. Okay.
22	A. I have to check my dailies.
23	Q. That's all right. Okay. I'm just if you were there, if
24	you were there then at that time, did you observe do you
25	remember a loud popping noise? Do you recall ever being on the

1	construction site and hearing a loud popping noise
2	A. No, no.
3	Q at any time?
4	A. February, no. If I'd been there, I don't remember that. No.
5	Q. Okay. Were you present for the destressing of the PT bars on
6	number 2 and then number 11
7	A. Yes.
8	Q after the move?
9	A. Yes.
10	Q. You were present for that. Okay. And did you were they
11	destressed according to the specifications?
12	A. Yes.
13	Q. Okay. Did you observe any cracks on the span after the
14	destressing?
15	A. Well, before, really. Well, before the completion of the,
16	completion of the destress, and after they set the span in its
17	final position. I was checking the span and the deck, and I
18	observed cracks and some damage in the deck in the north side of
19	the span. I took pictures and informed the PA and the senior
20	project engineer automatically. And also showed to the showed
21	the damage to the, to the senior project manager, Rodrigo Isaza,
22	that day. I showed him.
23	Q. I'm sorry, what was his name again?
24	A. Rodrigo.
25	Q. Rodrigo.

 A. He was the senior project manager. He was there. He was during Q. The senior project A. He's the project manager. Project manager. Q. The senior project manager with MCM. A. Yes. Q. Rodrigo. A. I showed him too because he was in the jobsite that day. Q. You showed that to him. A. Yes. Q. And that was after the move? A. After the move. Q. That was after the move A. Yes. Q. That was after the move A. Yes. Q with the transporter still underneath. A. No. Q. No. The transporters were removed. A. We were the deck,				
 Q. The senior project A. He's the project manager. Project manager. Q. The senior project manager with MCM. A. Yes. Q. Rodrigo. A. I showed him too because he was in the jobsite that day. Q. You showed that to him. A. Yes. Q. And that was after the move? A. After the move. Q. That was after the move A. Yes. Q with the transporter still underneath. A. No. Q. No. The transporters were removed. A. The transporters were removed.<!--</td--><td>1</td><td>A. He was the senior project manager. He was there. He was</td>	1	A. He was the senior project manager. He was there. He was		
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<pre>22 of the span. Is around the element or just in the truss 23 element 11. 24 Q. Okay. And so that same request. We'd like a copy of those</pre>	20	and whatever. And I observed that cracks in the new cracks and		
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24 Q. Okay. And so that same request. We'd like a copy of those	22	of the span. Is around the element or just in the truss		
	23	element 11.		
25 photographs	24	Q. Okay. And so that same request. We'd like a copy of those		
	25	photographs		

1 A. Okay.

2 -- from that time as well. We're requesting those Ο. 3 photographs as well. Did you observe the cracks? Were they -had they grown? Had the cracks grown? Were they wider? 4 5 Α. Yeah. 6 Ο. Did they --7 Α. Some, yes. 8 Some had grown. Ο. 9 Yeah, you had the difference between -- because the crack Α. 10 process was three. First was February 13 after the stressing PT 11 bars 2 and 11 and the longitudinal. That's the first time that 12 some cracks appear in the, in the structures, you know. The 13 second was after removing all the shoring on all the formwork. 14 That cracks was observed for the PA and reported by him, but just 15 after remove the formwork. And the last crack was observed by me 16 March 10 after place the span in its final position. 17 Okay. What would you categorize the cracks on February 13 as Ο. 18 being? 19 Small cracks, class A. Means 0.04 to 0.06 [sic]. Α. 20 So small cracks, class A. Ο. 21 Α. Yes. 22 Class A. And class A is --Ο. 23 From 0.004 inch to 0.006 inch. It was small and was in Α. 24 certain height in certain position of the element -- truss element 25 2 -- 3 and 10.

1	Q. Okay, perfect. Okay. And then what
2	A. In the report is the exact location, I'm pretty sure.
3	Q. Okay. Thank you. And then what would you classify the
4	cracks at the time of removing the shoring and falsework?
5	A. Well, I don't know I observed the cracks, but really the
6	report was performed by the PA. In that case I don't classify the
7	cracks. It was bigger than this one.
8	Q. Bigger than class A.
9	A. Yes. And was in another location. Was not the same crack.
10	The same crack remains the same. That I observed February 13 was
11	the same. They don't grow up. Just appear new cracks in the
12	bottom between the truss element and the deck.
13	Q. Okay. So the class A cracks at 10 and number 3 did not grow
14	as
15	A. No.
16	Q when removing the shoring and falsework.
17	A. No.
18	Q. They stayed the same.
19	A. No.
20	Q. Okay. But the cracks but when removing the shoring and
21	falsework between the truss were class A?
22	A. No, no. It's bigger.
23	Q. They're bigger than class A?
24	A. Yeah. So I can't tell you exactly because I don't measure.
25	I take pictures. The PA and part of the team take pictures and

1	report, and make the report. I did that report.		
2	Q. They were bigger than class A.		
3	A. Yeah.		
4	Q. And where were they again?		
5	A. Well, some in the picture it shows exactly some was in		
6	between the PT element the truss element and the deck. And		
7	some are in an angle. But just in that location, you know. Just		
8	in the bottom within the connection, the between the tendon		
9	I mean, sorry. The truss and the deck. Just right there. Not on		
10	the top. I don't see any in the top. At that time. I don't know		
11	if		
12	Q. Okay, thank you. And then what would you classify the cracks		
13	as being on March 10?		
14	A. It's bigger than those ones.		
15	Q. What would you classify them being?		
16	A. It's set on classification based on A, B, C, D. I think it's		
17	I don't, I don't remember exactly the classification for the		
18	bigger, but it was more than half-inch in some cases.		
19	Q. More than a half-inch.		
20	A. Yes. Quarter, half. Something like that.		
21	Q. More than half-inch on March 10.		
22	A. Yes. I just take picture and send to the PA and the project		
23	engineer. I don't make that report.		
24	Q. You didn't make that report.		
25	A. No, just send the picture and inform.		

1	Q. (Okay. And was that the last time
2	A. 5	The last day that I was there.
3	Q	That was the last day. You weren't you didn't do any
4	obser	ve or classification of cracks from between March after
5	this t	to the day of the collapse.
6	A. 1	No, no. I wasn't there. That was my last day.
7	Q. (Okay. Okay, and that on March 10, it was after placement
8	was do	one and the transponders had been removed.
9	A. 1	Yes.
10	Q. (Okay. Can you recall, after it was placed and the
11	trans	ponders were removed, when the destressing took place on
12	numbe:	r 2 and number 11?
13	A. 1	When exactly?
14	Q	Yeah. When did it, when did
15	A. 1	Well, really they start the operation, you know, moving the
16	equipr	ment, all that, after 1:30 or 2:00 because they finish and
17	then a	start removing the equipment around 12:30, 1:00.
18	Q. 2	12:30 or 1:00 is when they removed the
19	A	The final yeah, the Barnhart. The company started moving
20	all th	he transporters. Yes.
21	Q	Transponders about 12:30 or 1:00.
22	A. 2	Around there.
23	Q	They removed the
24	A	The transport, yes.
25	Q	transporters.

- 1 A. Transporters. Yeah.
- 2 Q. And then when did the destressing occur to number 2 and 3 number 11?
- 4 A. Okay, the whole process? Probably from 1:30 or 2:00 to 5:00.
 5 Q. 1:30 to 5:00.
- 6 A. Yes.

Q. Okay. And the move, the move was -- when did the move start?
A. Well, I don't know exactly the time. I wasn't there. But
the plan was do it during the first hour of the Saturday. But I
don't know exactly the time because that very -- the operation

- 11 start Friday night. That's only I know.
- 12 Q. Right, started --
- 13 A. But I don't know exactly at what time they start moving the
- 14 span. I don't know.
- 15 Q. Do you know when it was moved into place?
- 16 A. Say again?
- 17 Q. Do you know when the main span was moved into place?

18 Approximately what time was that moved into place, approximately?

- 19 A. Exactly the time that they set?
- 20 Q. Yes.
- 21 A. Around 12:30.
- 22 Q. Around 12:30.
- 23 A. Yeah.
- 24 Q. Okay. So you weren't present for the restressing of bar
- 25 number 11 on Thursday, March 15, the day of the collapse?

- A. No. I wasn't there.
 Q. You weren't, you weren't present for that. Who was present
- 3 from BPA --
- 4 A. I don't know.
- 5 Q. -- for that?
- 6 A. I don't know.
- 7 Q. Was there any, was there --

8 A. I suppose that is the team that was there, you know. I don't 9 know if they -- I don't know. I wasn't there, so I don't know

10 exactly who was there.

11 Q. If you weren't -- you know, if you weren't inspecting the

12 restressing from your firm, who else from your firm would be -- do
13 the --

- 14 A. You talking about Corradino?
- 15 Q. Yeah.
- 16 A. No, the only one in that project was me.
- 17 Q. Was you.

18 A. But that -- my last day was 10th, so I'm starting another 19 assignment, so --

Q. All right. So there really was nobody there to observe the
restressing on Thursday, March 15. There was nobody from
Corradino that was observing the restressing that was being

23 performed by VSL.

24 A. No. Not that I know.

25 MR. WALSH: That's all I have.

1	MR. BRAGG: Before we move on, quick follow-up question for		
2	the March 15. Did you have knowledge that they were going to do		
3	the restressing on		
4	MR. MOLINA: No.		
5	MR. BRAGG: the 15th?		
6	MR. MOLINA: No.		
7	MR. BRAGG: Did no one consult with you about that?		
8	MR. MOLINA: No.		
9	MR. BRAGG: Okay.		
10	MR. HOLT: Reggie Holt, Federal Highway.		
11	BY MR. HOLT:		
12	Q. I guess there are a lot of phases as far as casting this		
13	bridge, prefabricating it and the post-tensioning, both		
14	longitudinal transfers, both bars and strand. Just for our notes		
15	we've looked at the plans, but we haven't found it. They don't		
16	always align one to one. Could you kind of walk us through the		
17	post-tensioning sequencing		
18	A. Yes.		
19	Q for the project overall in that bridge element?		
20	A. They follow exactly the sequence.		
21	Q. Hum?		
22	A. You talking about if they follow the sequence?		
23	Q. Yes.		
24	A. Yes.		
25	Q. So what was I mean, could you walk us through when they		

I			
1	what post-tensioning operation was done first? Was it the bottom		
2	deck tendons and then the bars, then the soffit? Were all the		
3	bottom deck tendons done all at once, or were they, were they		
4	phased? Just could you, could you walk us through		
5	A. Yes, yes.		
6	Q (indiscernible) tendons and how it worked?		
7	A. Yeah, let me try to talk it slowly.		
8	Q. Yeah, yeah, that's fine. Yeah, yeah, yeah.		
9	A. Because I		
10	Q. We're going to take notes.		
11	A. Okay. Yes, yes.		
12	Q. It'll be nice to understand them.		
13	A. Okay. Well, when I start July 6, they already set some PT		
14	bars. PT bar ducts. So basically they installed PT bar ducts		
15	first. After that, they install the longitudinal PT strands on		
16	the deck, in the deck, that consist in the 12 tendons. Okay? Two		
17	of the tendon is ECI-12. Means 12 strands. And the rest was 19		
18	strands, okay? The PT, the PT bars they install, really was 12		
19	trusses, 12 elements on the trusses. But only we have eight PT		
20	bars working in the truss.		
21	So after they installed the ducts, built around the ducts in		
22	the longitudinal, they installed the transverse tendon. There was		
23	65 transverse tendons. That is a flat duct with only four		
24	strands. In that case, they installed temporary strands in the		
25	transverse for protect the ducts when they pour.		

So after all that section was finished means longitudinal,		
transverse and PT bars they start pouring, okay? They pour the		
deck, and after that they pour the trusses. After finishing the		
pouring, they formed and poured the canopy. Before pour the		
canopy, sorry, they install the eight longitudinal PT strand in		
the canopy.		
Q. Okay, so don't want to interrupt. So when you said "place,"		
not stressed.		
A. No, just install.		
Q. Just install, so		
A. Installation of the ducts.		
Q. The ducts and the strands are in the ducts, but not stressed.		
A. No, just installation.		
Q. Just installation. Okay.		
A. Just installation of the ducts. They don't, they don't push		
the strand yet. They only push on the strand in the transverse		
just for protect the duct when they place the concrete. So		
because it's a flat duct. In the transverse was flat ducts.		
Q. Right.		
A. Okay? So after all the post-tension system (indiscernible).		
I'm talking about ducts. They start pushing. Pushing means the		
process to put the strands inside. That was another part of the		
they start installing. But they installing first two they		
install first the process was install the strands of the D1L		
and D1R. That means the first two longitudinal tendons in the		

deck. And install that, and do the frisson test in one of them,
 the D1L. The frisson test.

After they do that, they install also two -- that's the 3 4 sequencing, right? Two tendons in the canopy. That was the --5 Sorry. And C2R. So they continue installing in that C2L. 6 process, you know, installing all the strands. After installing 7 all of the strands, they installing also -- the sequence is more clear, because they have to, they have to have 14 days between 8 9 installation and stressing and grouting. So they jump in, you 10 So I'm not talking exactly the -- they follow the know. 11 sequencing, but they jump in between grouting and stressing.

12 But after all was installed, they start stressing in that way 13 that I'm talking before. They're stressing first two tendons in 14 the, in the deck. That was D1L and D1R. And stressing also the -15 - and stressing those two. Sorry. They're stressing those two 16 first. Okay. And after stressing those two, they start stressing 17 number 2. PT bars number 2 and number 11. That was the second in 18 the sequence. Yeah, first two tendons in the deck, and 2 and 11 19 in the canopy. In the canopy, no. The trusses. After that, they start stressing the rest of the longitudinal tendons in the deck. 20 21 It was from D2L to D6L and from D2R to D6R.

Q. So if I'm understanding correctly, so I guess -- so you say you did deck then soffit tendons, and they worked from the middle, D1, Canopy 1, and they worked out. So two -- top two, bottom two, top two, bottom, all the way --

	1			
1	Α.	No, they right. Yeah. Okay, two in the deck.		
2	Q.	Q. Right.		
3	Α.	A. Two in the canopy.		
4	Q.	Right.		
5	Α.	Plus number 2 and number 11 PT bars. That was the first		
6	process.			
7	Q. So 2 and 11 PT bars.			
8	A. Yes.			
9	Q.	They were the only PT bars		
10	A.	At that moment, yes.		
11	Q. No other diagonal bars, truss element bars were stressed.			
12	Just those two. Okay.			
13	A.	Just 2 and 11.		
14	Q.	Okay. So after that, then		
15	A.	After that, they completed stressing the rest of the		
16	longitudinal tendons in the deck. Means from D2L to D6L and from			
17	D2R to D6R. They finish stressing that.			
18	Q.	Nothing in the canopy.		
19	A.	No. Not yet.		
20	Q.	And then they did okay, rest of okay. Got it.		
21	A.	After that, they start stressing the transverse tendon		
22	alter	mative. One here okay, one, two, three. Like that. As		
23	per plan and as per sequence. When finished stressing the			
24	transverse tendon, they come back to the canopy and start			
25	stressing from PT bar element 3 to 10. Yeah, they did in the			

1	canopy 2 and 11 first. And after finish the transverse, they do		
2	3, 5, 6, 7, 8 and 10. Because 4 and 9 don't have tendons.		
3	Q. So that okay, then they did the PT bars and diagonals.		
4	Okay. You still had a couple canopy, right?		
5	A. Yes. That was the last one. The last one was the C3L and		
6	C3R. In the canopy, they only stressed C2L, C2R, C3L and C3R.		
7	They leave the two others, the C3 and the C4, for when they		
8	finished another part of the back span and connect together.		
9	Yeah.		
10	Q. All right. Okay, so then you moved the bridge. It was set		
11	on the temporary bearings.		
12	A. Right.		
13	Q. Right? And then detensioning of the (indiscernible).		
14	A. Yeah. The plan showed detension for that reason, PT 2 and		
15	PT 11, they don't grout it. They grout in the rest and they leave		
16	this one destressed by plans, number 2 and number 11.		
17	Q. Now the plans called out for stressing of the vertical bars		
18	coming through the pier?		
19	A. Yes.		
20	Q. They were not stressed? Was that		
21	A. I don't, I don't see that. I don't see that.		
22	Q. So there was no		
23	A. I can't tell you yes or no, but I know they have the bars		
24	Q. The bars. Yeah.		
25	A. I saw the bars in the, in the pylon.		

1 Q. Right. H	Right.
---------------	--------

But I don't see that, I don't see --2 Α.

3 But you weren't aware of any kind of reason why they varied Ο. 4 from the plans for the vertical tensioning --

I don't --5 No. Α.

- 6 Ο. -- and the pier.
- 7 I do not. Α.

Okay. All right, that helps. Thank you for clarifying that. 8 Ο. 9 So I quess the next, I quess, theme -- I quess going back to the 10 restressing, I noticed that the access to diagonal 2 and 11, the 11 cavities, were jackhammered out. And you didn't have the nice 12 clean access. So what was the reason that there wasn't, there 13 wasn't a formed cavity at those two locations and there was a 14

- jackhammered access?
- 15 Α. The reason?

16 Um-hum. Ο.

I don't know. I don't know. I just know that they can't fit 17 Α. 18 with the jack and they need to clean around in the blister and 19 they need to clean around. But I don't know the reason, what 20 Is it (indiscernible) or -happened.

21 Was there, was there a cavity when you stressed them the Ο. 22 first time?

23 Yes, yes. They need to -- always they need to -- they spend Α. 24 a lot of time trying to fit in the blister. Try to for get room 25 for the, for the jack. So they need to clean and jack and, you

1	know,	the (indiscernible) broke a little bit around for make room
2	for p	out the jack.
3	Q.	Oh so a cavity was made, but the cavity wasn't sized properly
4	for t	the ram, is what you're saying.
5	Α.	Right.
6	Q.	Okay. All right. So it wasn't an afterthought. It was a
7	poor	ly sized cavity. Okay. Makes sense. So it's my
8	undei	rstanding that you are a sub, the BPA, to Corradino Group.
9	Α.	Yes.
10	Q.	And you were brought in primarily because they needed a
11	cert	lfied PT inspector?
12	A.	I don't know about this.
13	Q.	Well, you're a you (indiscernible)
14	Α.	Yeah, I'm certified.
15	Q.	You're certified.
16	A.	But I don't know that process, you know. I'm just a senior,
17	you }	know.
18	Q.	Well, no, no, I understand. I'm just other than the
19	retensioning operation that you, that you were not present for,	
20	were	you present for all other post-tensioning operations
21	A.	Yes.
22	Q.	on the bridge? So there was no tendon stressed on the
23	brid	je
24	Α.	Without me? No.
25	Q.	without you.

1	Α.	No.

2 Q. So the only one performed without you there to observe was3 the retensioning that happened right before the collapse.

4 A. Yes.

Q. Okay. Thank you. Before I get off the post-tensioning, I'll make sure. Just as far as the processes, when you observed -when they're stressing, let's say, the bars in particular, there was a ram, there's a pump, there's gauges. And the gauges have numbers and --

10 A. Yes.

Q. So do you, as part of your oversight, do you look at the gauge identifier and make sure that it aligns with the ram and the pump that's being used?

14 That's the first that I have to see. If the jack is Right. Α. 15 in good condition and the gauge is in good condition and it's 16 matched with the calibration, so I have to make sure that it's 17 calibrated. You know, have 6 month calibrated at least, say, 6 18 month. And I have to check that and compare it with the log, the 19 log submitted by the contractor. If they going to do it with this 20 jack, it's this jack? Yes, correct. It's in good condition.

21 It's calibrated. Perfect.

Q. So if you have a curve for BSR016 (ph.) -- that's a -- so you check that the ram is that, the gauge has an identifier and you have the calibration curve for those two operations, and that's --A. Correct.

1 Q. You check that all those are --

2 A. Yes. Yes.

Q. Okay, the -- you said you've measured elongations. I mean, for these PT bars and the fairly short elongations, were they -in general are pretty difficult to measure? I mean, they're within the accuracy of, you know --

7 A. I know.

-- an eighth of an inch, a quarter-inch, right? It's not 8 Ο. 9 like a long strand where you get, you get a very long reading. So 10 were they -- I mean, was that typically the case? Was it -- I 11 mean, if we look at the logs, it would say, like, eighth-inch, 12 eighth-inch, a quarter-inch, a quarter-inch, every time you would 13 go to whatever increment was prescribed? I mean, it's --14 Yeah, it's hard, but the -- well what the, what the -- we did Q. 15 was I don't measure. I was observing the measuring and just 16 record in my loq, my field loqs, to verify, after they submitted 17 the certification package, that they submit the same information. 18 But the PT, the PT post-tension level 2 that was there, the 19 technician -- and the foreman in this case too -- they measure, 20 you know. So the same people try to measure always. And even 21 it's hard, they know how to do it, and always they do the same. 22 So the consistency who do it and how do it is important there. 23 So I don't measure. I just verify is it -- okay, all right. It's 1, 6, 8. All right, 1, 6, 8. Theoretical, theoretical. 24 25 It's in between 7 -- plus/minus 7 percent. That's okav. I know

it's hard, because when you mark. But if you follow the same 1 people and, you know, the same people do the measuring and do it 2 3 from the same location and consistency, that's more accurate, you 4 know. 5 Understood. (Indiscernible) so the real meaningful data is Ο. 6 the final elongation, right? So that's the one that --7 Yes. Α. And that was, and that was all -- fell within the -- was it 8 Ο. 9 the 5 percent or something? 10 Seven. It's 7. Α. 11 Seven percent. Q. 12 Seven plus/minus. Yeah, the thing there is they submit a Α. 13 log, you know. For example, it's not the same (indiscernible) 6A, 14 but you -- when you convert to sixteenths, and the 7 percent is 15 either be -- you know, for that reason, the logs probably, the 16 certification that they submitted, is a little different. It's 17 the same number. It's just the spreadsheet in itself do it by 18 sixteenths and check the range between 7 is -- but it's right. At 19 least my log, my field log, I compare with the certification that 20 was submitted, and was okay, you know. 21 Ο. So the elongation was fine --22 The elongation was--Α. 23 -- on 11 in particular, right? Ο. 24 Yes, 11. Yes. Α. 25 All right. (Indiscernible) finish post-tension --Q.

1	A. In my logs I put notes in something you know,
2	(indiscernible) logs, you know. Some notes about that, you know.
3	About the elongation and the
4	Q. Okay. So you kept, you kept stressing all your
5	A. Yeah, I did my own, my own field log.
6	Q. Right. Right. We can add that to what we need and would
7	like to see. Can you add those to the record?
8	A. I put it in the server to the
9	Q. Right. Okay.
10	A. I spend my last, like, 4 days in the job, 4 or 5 days,
11	organizing and reorganizing, you know, all the information
12	(indiscernible). And it's there in the server, BPA server.
13	Q. Okay. Okay, that finishes my post-tensioning questions. I
14	guess now I'll go back to the cracking.
15	A. Okay.
16	Q. Like the last theme I want, I want to touch on. So based on
17	your timeline, the first cracking that was observed on diagonals
18	tendon 3 after stressing bars 2 and 11.
19	A. Yes.
20	Q. Right? Whereabouts was this cracking? Was it at the
21	interface? I mean, the location, general location?
22	A. Well, it's in the report. But it's around the middle of the,
23	of the element.
24	Q. So both are around some are mid-height, so not at the, not
25	at

1 A. Not at the bottom. Not at the bottom.

2 Q. Somewhere within the length of the element.

3 Yes, yes. It's that location I measure that's in the report. Α. 4 And the picture is referenced to east, north. 5 Okay. So when that happened, you only had two bottom, two Ο. deck and two canopy tendons stressed on the bridge overall, so --6 7 right? Because that's --There were 13. No, they already, they already stressing the 8 Α. 9 rest of the longitudinal too. 10 I thought you did two deck and two canopy, and then you did Ο. 11 PT bars and diagonals 2 and 11. Then you did the deck after that. 12 Α. Yes. I observed the crack after that, you know. 13 Oh the -- did the PT bars 2 and 11 and (indiscernible) --Ο. 14 Not exactly. Not --Α. 15 Q. -- deck happen all in the same day or --16 No, no, no. I don't, I don't know if it happened on the same Α. 17 day. I observed day after, you know. Okay. You know, it's not 18 exactly after stress --19 Okay, it wasn't directly after, but it was --Ο. 20 Α. No, no, no, no. 21 Okay. So to my understanding, you weren't on the bridge Ο. 22 February 24 with the second identification of additional cracking. 23 Because we talked about first cracking, which happened --24 Wasn't around -- the report was --Α. 25 Ο. On the 13th.

1	A February 13. In the first one, the first crack. The							
2	second, and was reported by the PA, was after removing all the							
3	shoring.							
4	Q. Right.							
5	A. The shoring in the deck and the scaffold. And the last one							
6	that I observed was March 10.							
7	Q. Right. Just back to the second one. Did you, after hearing							
8	about this, did you go up and observe							
9	A. Yes.							
10	2 the secondary crack?							
11	A. All the team observed those cracks.							
12	2. Okay. On the 24th, the one I'm talking about.							
13	A. I don't							
14	2. The form removal. Did you were you up deck? Did you see							
15	those cracks?							
16	A. I don't remember is that exactly that day. I don't							
17	remember. I have to check the report performed by the PA. But I							
18	don't remember if it was exactly 24th, 28th							
19	2. Well, not the date, but did you see that cracking that							
20	nappened due to falsework removal, independent of the day?							
21	A. Yes. Yeah, I saw it.							
22	2. And where was that cracking?							
23	A. Where?							
24	Q. Yeah.							
25	A. At different places. Tendon 2 and 11 also in the location in							

1	the bottom. I think I saw I said "I think," because I did, I									
2	didn't the report, you know. I saw some cracks around that area.									
3	And that's what I recall. I have to check, but I didn't the									
4	report. That specific report was the PA.									
5	Q. Okay, that's fine.									
6	A. But I saw the cracks, yes.									
7	Q. And they were generally located in diagonals 2 and 11.									
8	A. Yes.									
9	Q. And were they category A or below									
10	A. I can't, I can't tell you like that. I say I know in the									
11	first inspection I did, I use because it's very small									
12	Q. Right, right.									
13	A I used the card that shows when you have the small									
14	cracks, you have that card that shows the line. But the rest was									
15	visible big cracks, you know, so I don't, I don't take that									
16	measure. At least in the second, in the second time that the									
17	cracks appear.									
18	Q. So obviously so then greater than an A.									
19	A. Yes, yes.									
20	Q. You could see it from (indiscernible).									
21	A. Yes. Yes.									
22	Q. You'd be 10 feet away and you'd see a visible crack.									
23	A. That's right. And you're going to see, you're going to see									
24	in the pictures, yeah.									
25	Q. At 2 and 11. And they were at what locations? Along 2 and									

1	11, the
2	A. Yes, around those two (indiscernible).
3	Q. Top? Bottom?
4	A. No, on the bottom. Only on the bottom. I don't know if I
5	think I saw I don't recall exactly if it's on the top. But I
6	saw the pictures that the PA sent. It's perfectly clear where the
7	crack is.
8	Q. So the FDOT cracking goes from A to D, right? Or something
9	like that? Or it'd be on the, on the higher end of that.
10	A. Yes, yes, yes. But I can't say exactly
11	Q. (Indiscernible).
12	A what classification it is.
13	Q. (Indiscernible)
14	A. I know the first one because I did you know, I put the
15	card there so
16	Q. Well, just to get a general feel, it was on the upper end of
17	what FDOT
18	A. It's bigger than that.
19	Q. Hum?
20	A. Bigger than A, that classification.
21	Q. Oh yeah, yeah, yeah. So prior to the detensioning operation
22	after setting, did you survey the bridge
23	A. Yes.
24	Q to make sure that no additional cracking was incurred
25	during the move?

1	Α.	Yes.

2 Q. And did you --

3 A. No, everything remains -- you say after the detension or
4 before?

5 Q. Before detensioning, after the move. So they moved it,6 right?

7 A. Um-hum.

8 Q. And it was set. And then you detensioned it. Was there an 9 assessment of the bridge's condition after move, after bridge set, 10 but before detensioning?

A. That's the cracks that I just reported. There is the bigger cracks up here and some open a little more. So I send -- take a picture and send it and inform the PA and the senior project leader.

Q. But that was after detensioning. Or was that before -A. Before and during. But okay. Was started before. I know
because I take pictures so I know when more or less, you know.

18 After the, after the stresses, the crack remain the same as it --

19 Q. So the cracking --

20 A. More clear, more clear. The cracks that I observed, I21 observed before they finished the destressing.

Q. And they didn't -- and then when they were finished the detensioning --

24 A. It remained the same.

25 Q. It remained the same.

1	A. Yes. That (indiscernible)								
2	Q. And those cracks were more significant								
3	A. Yes.								
4	2. Then they were very significant.								
5	A. Yes.								
6	Q. And they were observed before the detensioning operation ever								
7	started. Because you saw those								
8	A. Yes, I saw it before.								
9	Q. Okay. There has been a lot of discussion on the cracking at								
10	the deck level, on the diagonal interface area. Was there								
11	cracking at any other location back face of the diaphragm,								
12	underside of the diaphragm that you observed?								
13	A. No. No, I don't you talking about the first								
14	Q. (Indiscernible) yes.								
15	A. For my first, my first cracking inspection you're talking								
16	about, right?								
17	Q. Yes.								
18	A. No. I don't see any other								
19	Q. So it was primarily located at the diagonal deck region.								
20	A. In a, in asorry. In a truss element 3 and 10. Basically								
21	I observed that. That's the first now you're talking about the								
22	first inspection.								
23	Q. No, no, I'm talking about all after placement now.								
24	A. Yes. Basically no, I don't see any other. Not in the deck,								
25	not in the canopy. I don't see any other.								

1	Q. How about the back face of the so diagonal 11 and vertical
2	12 hit at the pier location?
3	A. Right there.
4	Q. And there was what they call there was a diaphragm that
5	was by 2 feet wide, 4 feet (indiscernible)
6	A. Yeah, some damage. In the picture it showed some damage in
7	the edge that is, like, broke. There's no crack. It's like
8	broke. The damage, the edge of that
9	Q. Right. The edge cracked off. And that was there before they
10	detensioned, you're saying, or
11	A. Yes. Yes.
12	Q. So you saw that before
13	A. Yes.
14	Q they started detensioning?
15	A. Yes.
16	Q. Well, did you get a chance to look at the bottom
17	A. No.
18	Q or the back at all?
19	A. No, not the back. Just on top of the deck.
20	Q. So on top of the deck.
21	A. And so the picture I'm taking from the top. No, I don't see
22	any in the bottom.
23	MR. HOLT: (Indiscernible) one second. I think that's it for
24	me. Thank you.
25	MR. MOLINA: You're welcome.

1 MR. WALSH: Okay. I just have a few --(Indiscernible). 2 MR. BRAGG: 3 MR. WALSH: -- just a few follow-up questions. 4 MR. MOLINA: Yes. 5 MR. BRAGG: Dan. 6 MR. WALSH: Dan Walsh, NTSB. 7 BY MR. WALSH: 8 You mentioned the -- when the removal of the shoring and the Ο. 9 falsework took place and the second time you observed the cracks 10 on the, on the main span. Do you have any idea what that date 11 was? I mean, any idea? 12 I think February 28. But I'm not completely sure. I Α. 13 remember that just because I saw the email sent by the PA about 14 that report, but I'm not, I'm not completely sure if that's 15 February 28. 16 But the photos will identify the correct date. The photos, Ο. 17 the photos --18 Yeah, sure. Sure. Yes. Yes. Yes. Α. 19 -- will confirm that date. Ο. 20 Yeah, I don't want to say exact date because --Α. 21 Q. Right. 22 Because it was around February 28 -- 26, 27, something Α. 23 like --24 And then just to follow up with -- on Reggie's question about Ο. 25 the gauge and the calibrator. So you check -- when you check to

1	make sure that the gauge is in good condition and it matches the							
2	calibrator							
3	A. Yes.							
4	Q what would happen if the gauge and the calibrator did not							
5	match?							
6	A. They can't work.							
7	Q. They can't work.							
8	A. Work. Because the process was like this. When I when							
9	they going to start, I have to check that first. Even they have							
10	the correct paper, if the CEI don't have it, they can't start.							
11	That was the I'm sorry. The project engineer said, if you							
12	don't have if our office don't have the right calibration, even							
13	they have, you can't inspect that operation. So always they send							
14	to the prime contractor and to our office the equipment telling							
15	the calibration for that specific operation.							
16	Q. So you don't allow them to work if the gauge and the							
17	calibrator are not correct.							
18	A. No.							
19	Q. Don't match.							
20	A. No.							
21	Q. You don't allow them to work.							
22	A. No. No.							
23	Q. Okay. And you don't know, on the day of the collapse,							
24	whether the gauge and the calibrator were correct because no one							
25	was there to observe that.							

1	Α.	Well,	not me.	I	wasn't	there,	I	know.
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2 Q. Right.

3 A. But I don't know if somebody was present there checking that.4 I don't know.

5 Q. To check. Right.

6 A. I don't know.

- Q. Okay. And what would happen, in your experience, if someone proceeded with the gauge and the calibrator not matching
- 9 correctly? What could happen?

10 A. Well, if the, if the tendon receives more force than they

11 design it, you know, in a high level, that can explode. That can

12 break the tendon. That happened before in other projects, you

13 know. Not while I'm present, but in a class, they show that. So

- 14 that's very important, you know. That's what I'm saying.
- 15 Q. So it could, it could explode the tendon. What other, what 16 other --
- 17 A. I don't know. Okay.
- 18 Q. More force could be applied.

19 A. You know, I'm not a designer, you know, but --

20 Q. Yeah, right.

21 A. -- I'm not the structural engineer. But for some reason they

22 submit a minimum and a high pressure. So if you put more

23 pressure, maybe damage the tendon. That's the only I can say.

24 Q. Okay. Thank you.

25 MR. WALSH: That's all I have.

1	MR. E	BRAGG:	Okay.	So the	e time	e is	11:23.	We	are	going	to
2	conclude t	his por	tion o	f the i	nterv	view.	Thank	yoı	1.		
3	(Wher	eupon,	the in	terview	was	conc	luded.)				
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CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD

IN THE MATTER OF: PEDESTRIAN BRIDGE COLLAPSE MIAMI, FLORIDA MARCH 15, 2018 Interview of Alexis Molina

ACCIDENT NO.: HWY18MH009

PLACE: Sweetwater, Florida

DATE: April 9, 2018

was held according to the record, and that this is the original, complete, true and accurate transcript which has been transcribed to the best of my skill and ability.