



September 18, 2015

R J Behar & Company, Inc  
6861 SW 196<sup>th</sup> Avenue, Suite 302  
Pembroke Pines, Florida 33332

Attention: Mr. Javier Rodriguez, P.E.

**Re: Roadway Improvements SW 27<sup>th</sup> ST from SW 27<sup>th</sup> Ave. to SW 32<sup>nd</sup> Ave.  
Pavement Cores and Borehole Permeability Tests  
Miami, Florida  
TSF File No. 7111-15-281**

Dear Javier:

As requested, TIERRA SOUTH FLORIDA, Inc. (TSF) has completed four (4) Pavement cores and two (2) Borehole Permeability (BHP) tests, 15 feet deep at the above-referenced site.

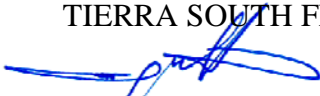
The Pavement Cores were performed using a truck mounted drill rig with a 6 inches core barrel. At each location the thickness of base and subgrade material were measured. Results of our field exploration are summarized in a table format attached to this report, including pictures of the asphalt pavement core recovered and approximate test locations.

The BHP tests performed were conducted in accordance with South Florida Water Management District (SFWMD) Standards. The tests were performed using the usual open-hole, constant head methodology. The holes were advanced to 15 feet deep. The borings were completed as open wells with gravel pack (6-20 silica sand). The well screen slot widths were 0.020 inches. Water from the drill rig tank was then pumped into the open wells, and the amount of water required maintaining constant head was recorded. Results of our field permeability test are attached.

If you have any questions pertaining to this report, or if we may be of further service, please contact our office.

Very truly yours,

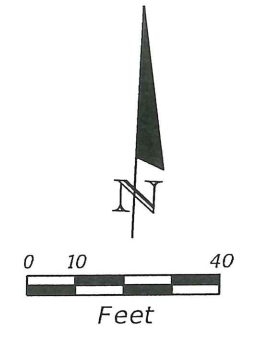
TIERRA SOUTH FLORIDA, INC.



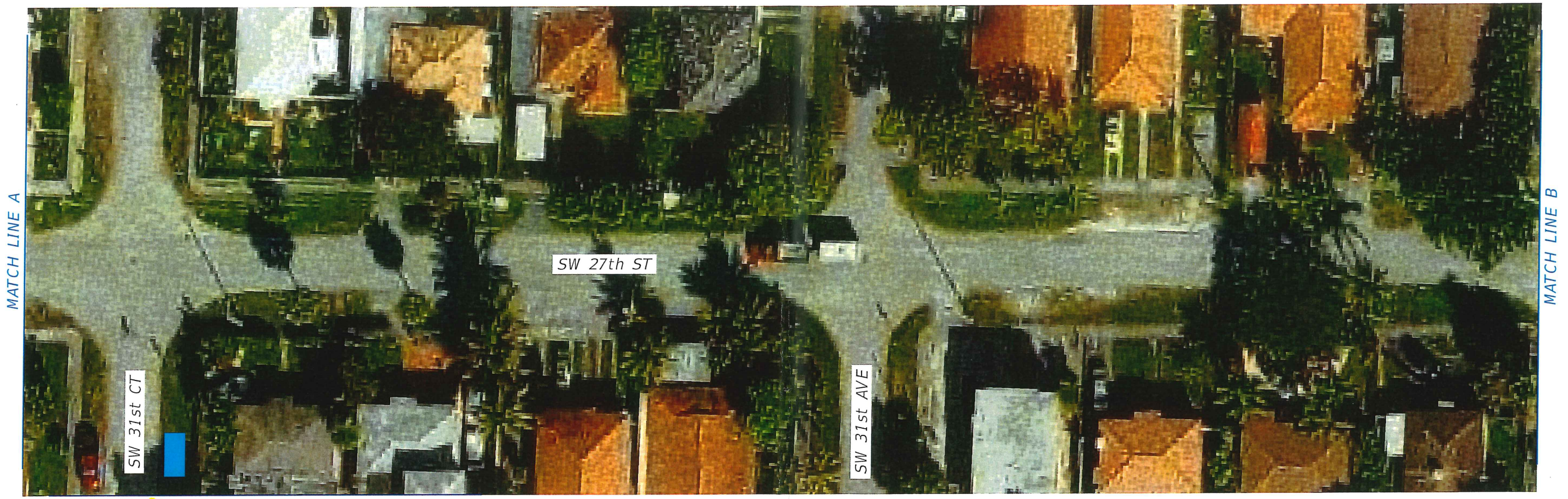
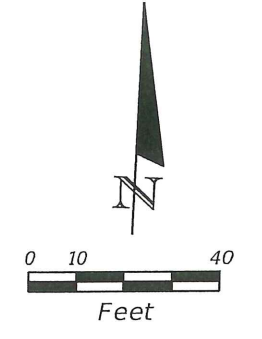
Raj Krishnasamy., P.E.  
Principal Engineer  
FL Registration No. 78558

Attachment: Pavement Cores / BHP Test Location  
Pavement Cores Data  
Pavement Cores Pictures  
BHP Test Results







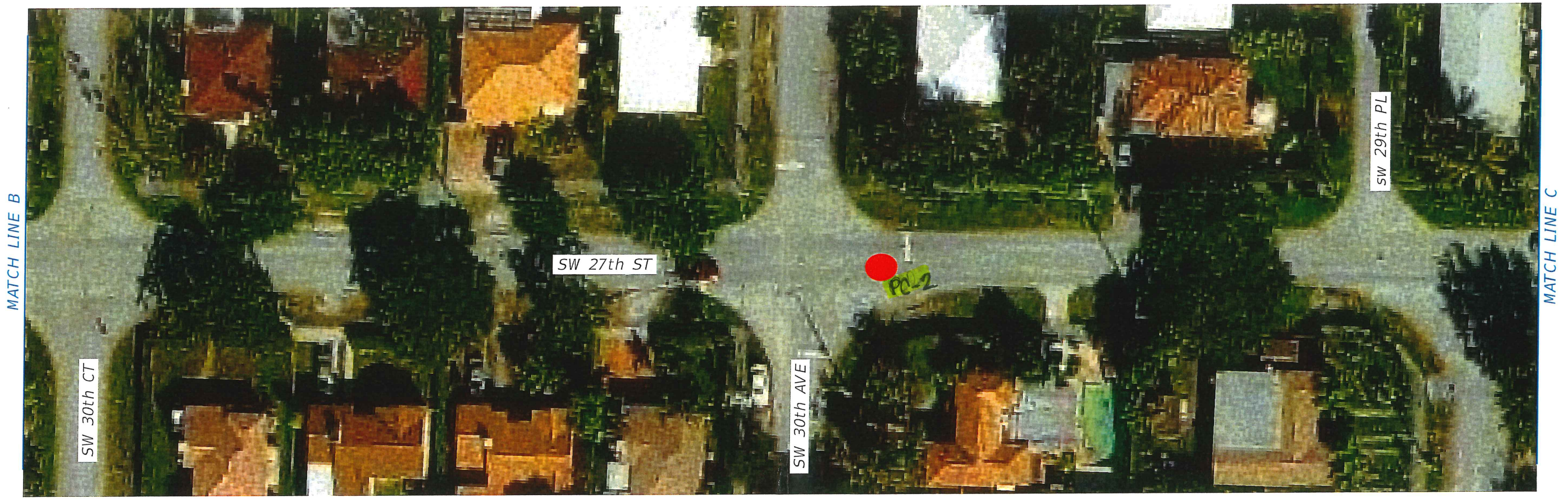
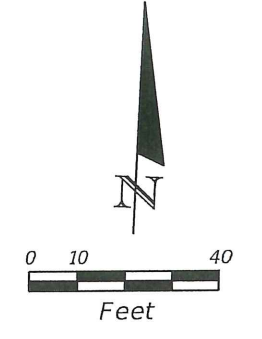


MATCH LINE A

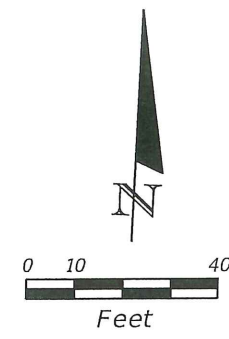
MATCH LINE B

**BP-1** MATCH LINE E

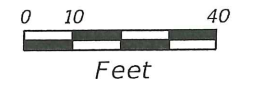












BHP-2



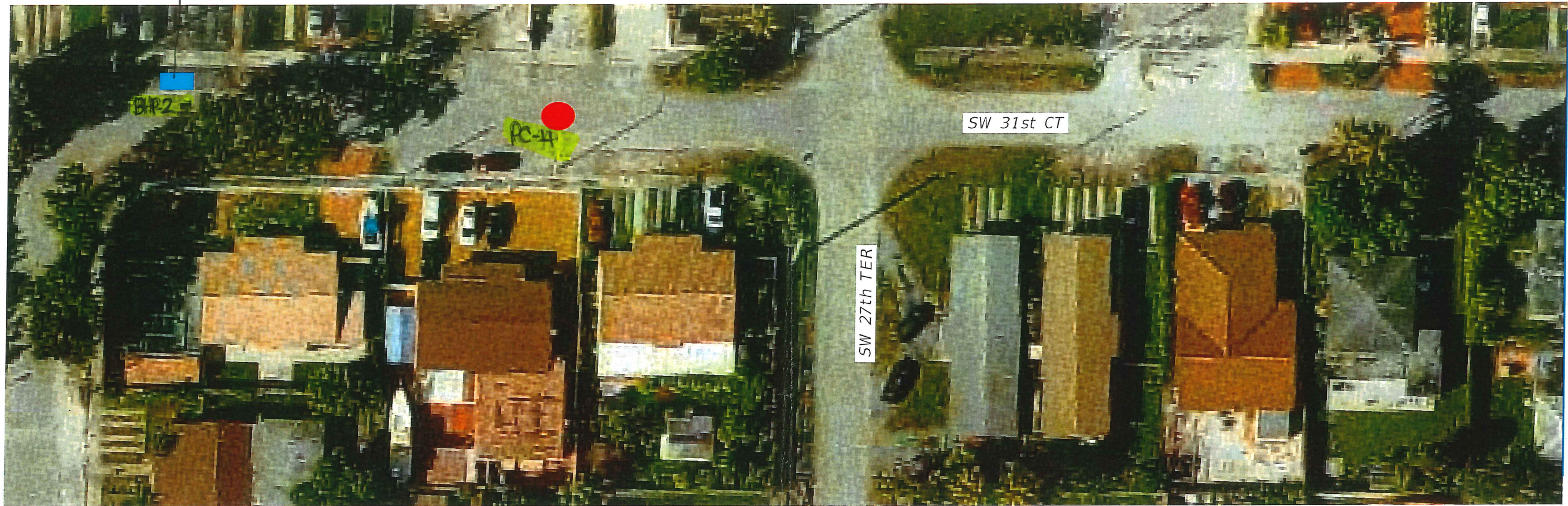
BP2

PC-4

SW 31st CT

SW 27th TER

MATCH LINE E





## PAVEMENT CORING DATA

Page No.:1

**Project No.:** 7111-15-281

Date: 9/15/2015

**Name:** SW 27th St/ SW 27th Ave

Cored By: Dennis Ramos

Core No.	Pavement Core Type	Lane	Pavement Layer (in)					Total Core Length (in)	Base		Subgrade		CRACK	Rut Depth (in)	Cross Slope (%)	Comments
			Apparent Lifts						Type	Thickness (in)	Type	Thickn ess (in)	Depth (in)			
			L1	L2	L3	L4	L5									
PC-1	Asphalt	LL	1	2 1/4				3 1/4	LR	5 1/2	LS	>12	—	1/16	3 2/5	Asphaltic Base 3/8 in (Black Base) and LR Attached after Last layer.
PC-2	Asphalt	RL	1/2					1/2	LR	6	LS	>12	—	1/16	3 2/5	LR Attached to Last layer.
PC-3	Asphalt	RL	1	1 1/3				2 1/3	LR	6	LS	>12	—	1/16	4 2/7	LR and Asphaltic Base 1 in (Black Base) Attached to Last layer.
PC-4	Asphalt	LL	1					1	LR	6	LS	>12	—	1/16	2	LR Attached to Last layer.

Note: LR - Limerock, LS - Limestone, RL- Right Line, LL- Left Line.





















