APPENDIX D
Pavement Test Results

Cal -Tech Testing, Inc.
- Engineering
- Geotechnical
- Environmental

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April 19, 2017

AECOM Corporation
7650 W. Courtney Campbell Cswy
Tampa, Florida 32216

Reference: In-Place California Bearing Ratio Test Results
Punta Gorda Airport
Punta Gorda, Florida

Dear Mr. Edgar Figueroa, P.E.:

This letter presents the results of the In-Place California Bearing Ration (CBR) Test performed on the existing Punta Gorda Airport Runway 4-22 pavement limerock base in Punta Gorda, Florida. The CBR tests were performed per the scope of work in our proposal dated February 22, 2017 and your subsequent approval.

A total of six (6) CBR tests were performed in general accordance with the Standard Test Method for CBR (California Bearing Ratio) of Soils in Place, (ASTM D 4429), on April 4, 5 and 6, 2017 and at the locations (CBR1 through CBR6) as laid out by your firm. Coring of the asphalt portion of the pavement was completed prior to performing the CBR tests.

In general, each In-Place CBR tests was performed by applying a load to a piston penetrating the soil at a rate of approximately 0.05 inch/min. During the test, the load and soil deflection was recorded at each 0.025-inch penetration increment to a final penetration of 0.5 inches. The CBR results for a penetration of 0.1 inches and 0.2 inches were obtained from plots (enclosed) of the stress versus penetration.

The results of the In-Place CBR tests along with the thickness of the asphalt core specimens are presented below:

	CBR LOCATION					
	CBR1	**CBR2**	**CBR3**	**CBR4**	**CBR5**	**CBR6**
Limerock base $CBR_{0.1"}$	114.0	64.0	130.0	80.0	9.2[1]	10.5[1]
Limerock base $CBR_{0.2"}$	55.3	56.0	222.7[2]	153.3[2]	9.0[1]	10.0[1]
Asphalt Thickness (in)	8.0	8.5	8.8	9.0	7.0	6.0

Notes: 1-groundwater seeped into hole while performing CBR test
2-when $CBR_{0.2"}$ is greater than $CBR_{0.1"}$ the test should be repeated.

In accordance with the ASTM D 4429, the reportable CBR test result corresponds to the value at 0.1 inch penetration; however, the standard indicates that an In-Place CBR check test should be performed when the CBR test for 0.2 inches of penetration results greater than the value for the CBR value at 0.1 inches of penetration.

Based on the ASTM D 4429 and the listed CBR results, CBR3 and CBR4 locations should be re-tested.

Finally, a groundwater seepage into the test holes was observed during the testing of locations CBR5 and CBR6.

It has been a pleasure working with you and we look forward to continuing our work on this and future projects.

Sincerely,
Cal-Tech Testing, Inc.

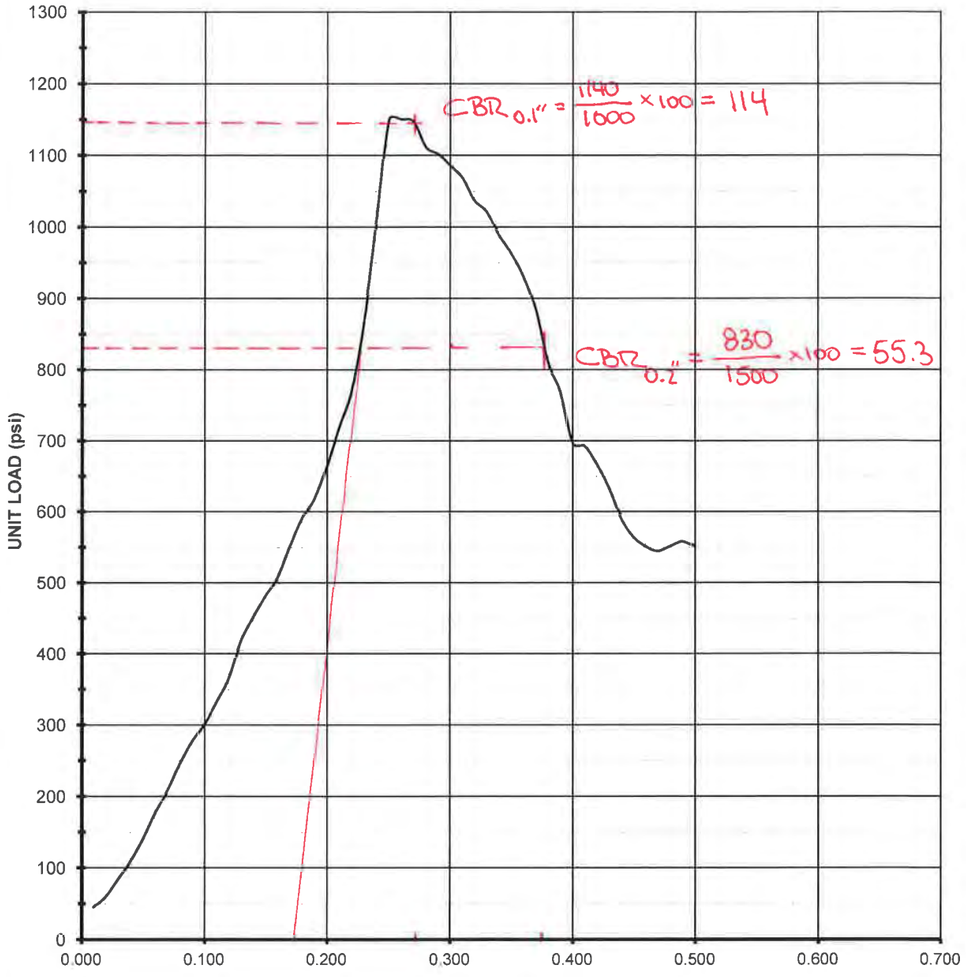
IVAN E. MARCANO LICENSE No. 65550 STATE OF FLORIDA PROFESSIONAL ENGINEER 4/19/17

Ivan E. Marcano, M.S., P.E.
Senior Geotechnical Engineer

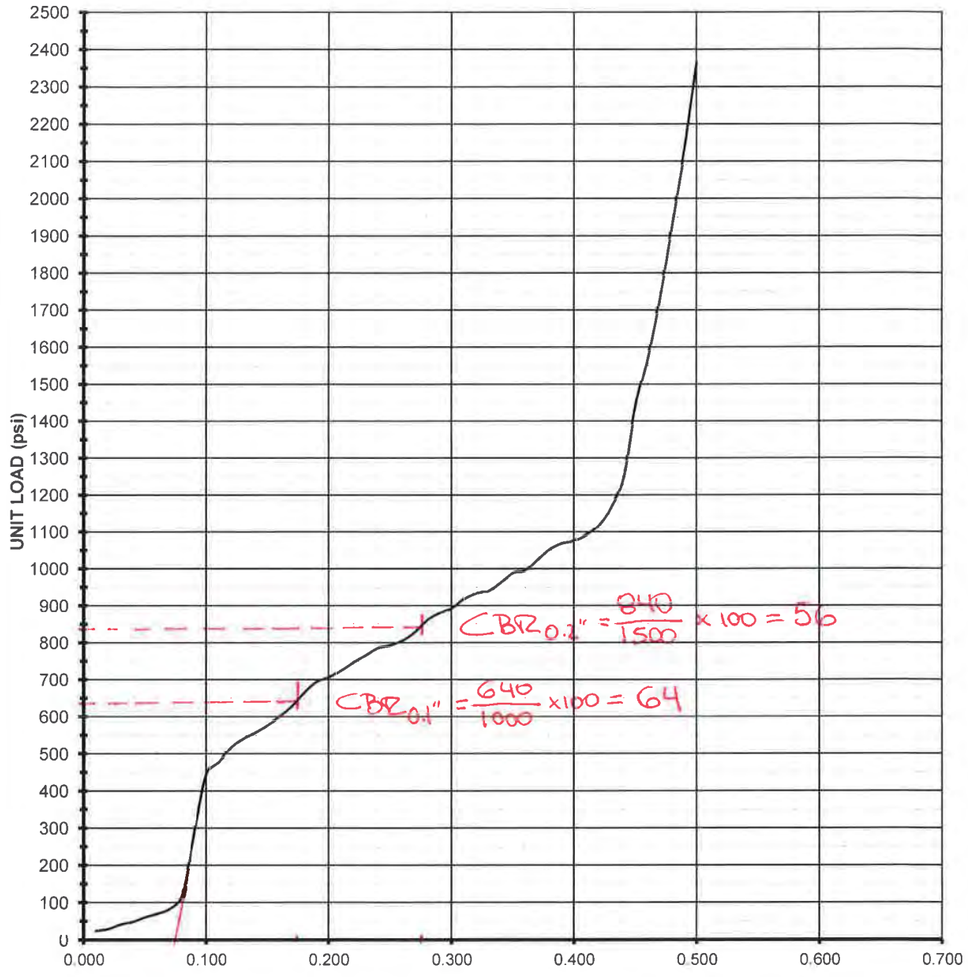
Mike Stalvey, Jr.
Vice-President

Enclosure:
Unit Load vs. Penetration Plots

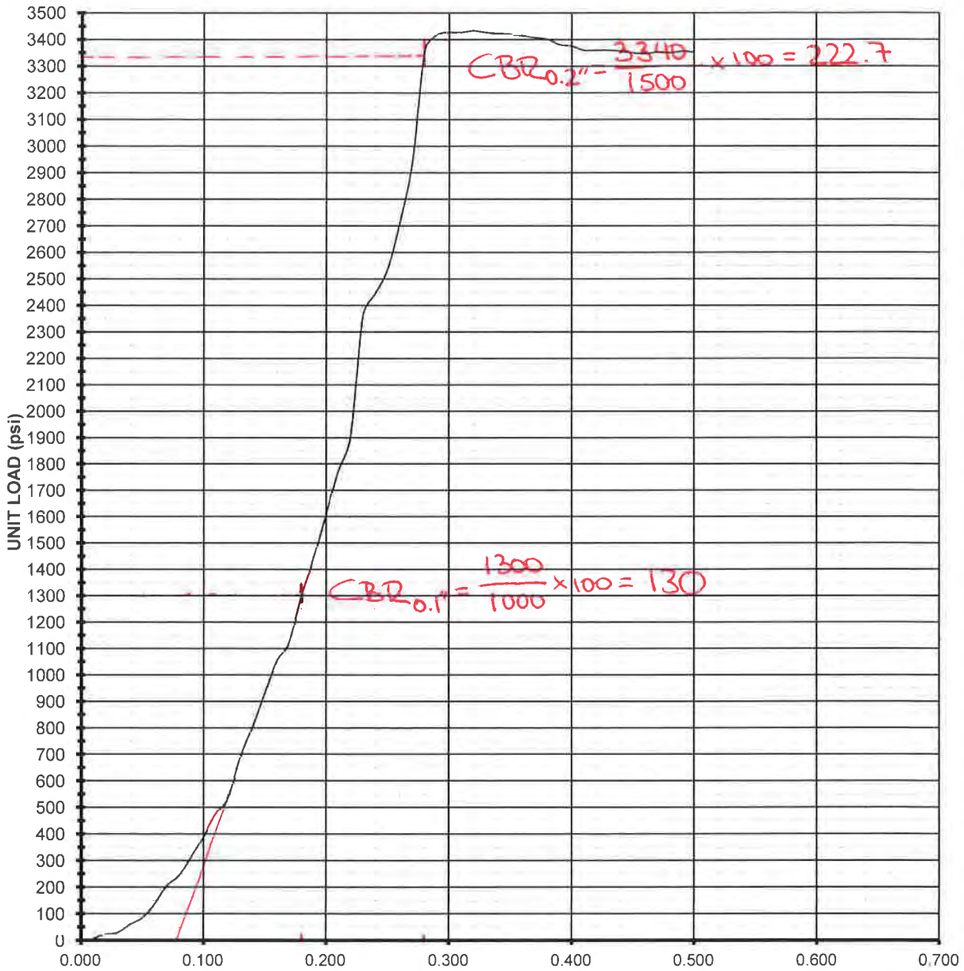
CBR NO. 1



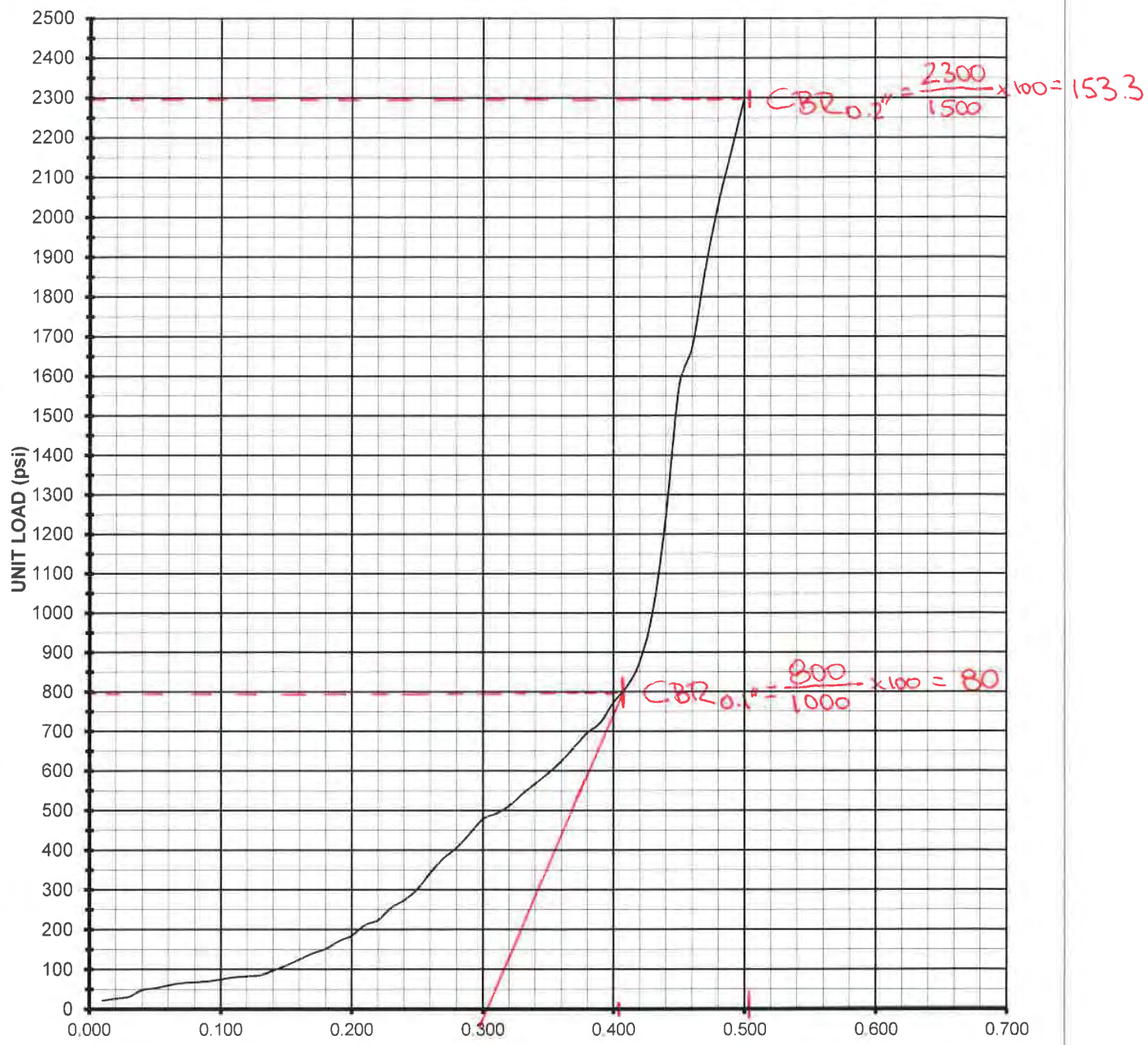
CBR NO. 2



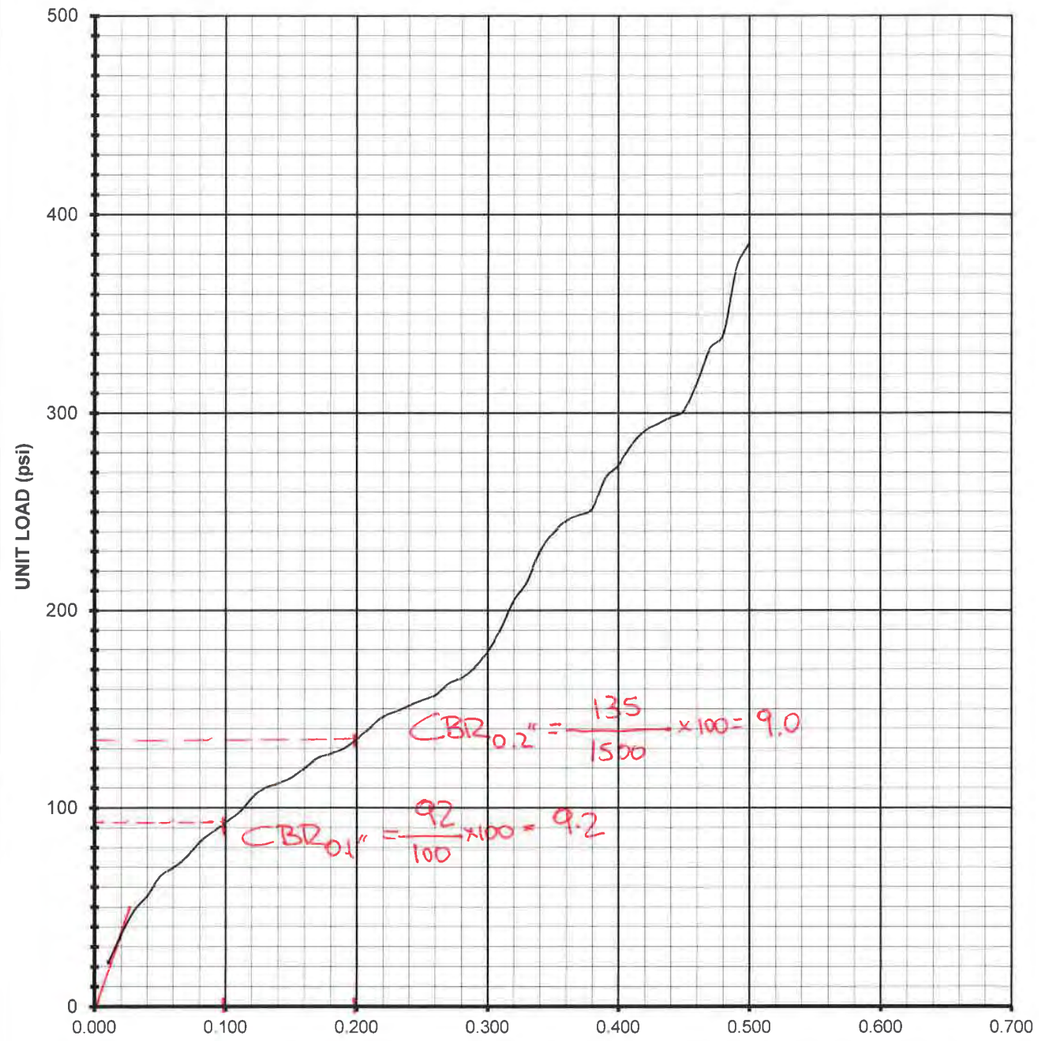
CBR NO. 3



CBR NO. 4

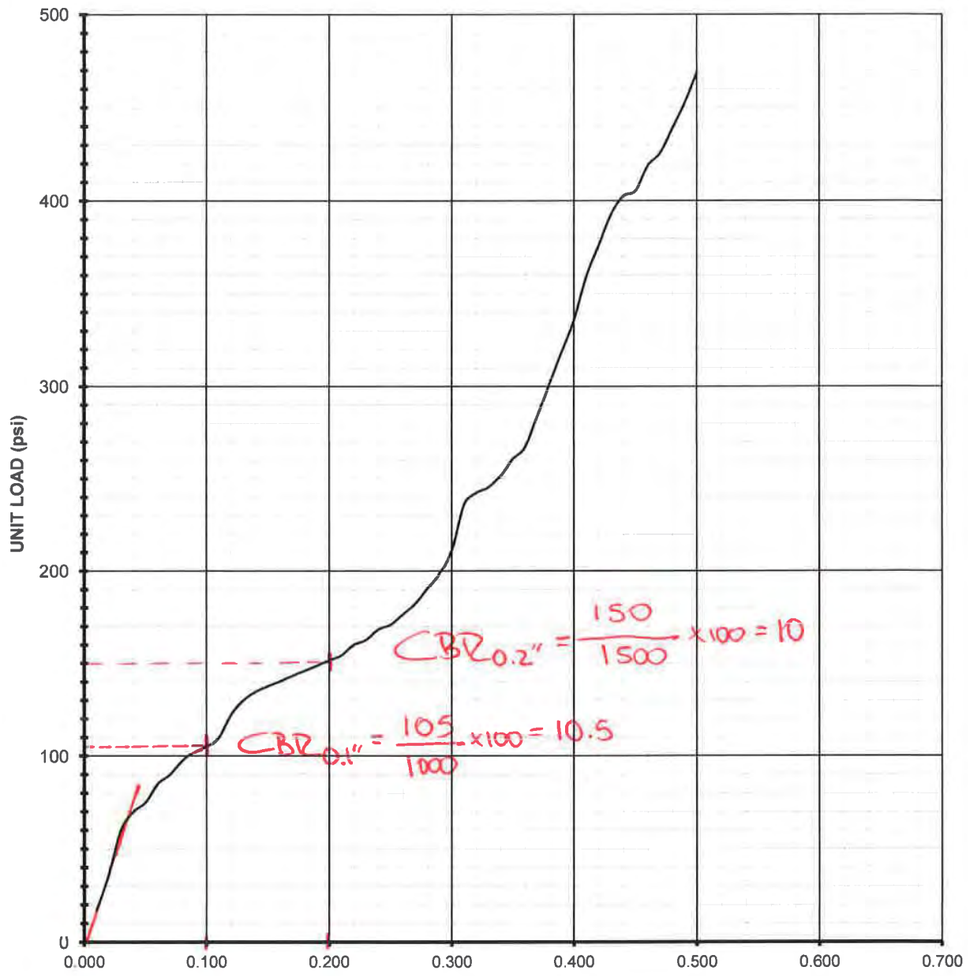


CBR NO. 5



PENETRATION (inches)

CBR NO. 6



PENETRATION (inches)