

Reflective Cracking Testing Notes

Date: April 6, 2015

Project: Reflective Cracking Indoor Phase IV

Weather:

	6:54 AM	3:54 PM
Temperature (°F):	41.0	68.0
Dew Point (°F):	35.1	43.0
Humidity (%):	79	40
Visibility (Miles):	10.0	10.0
Wind (MPH):	Calm	16.1 S
Conditions:	Clear	Clear

Working Hours: 7:00 AM – 4:30 PM

Sub-Contractor(s): Gemini, Rodriguez Consulting

Personnel: SRA, (1) engineer (Gemini), (1) surveyor (Rodriguez)

Equipment: (1) core drill with 6” I.D. core bit, (1) shop vacuum

Reflective Cracking Testing Notes:

An SRA engineer stopped the 21 mil test cycle on the South section of the Phase IV test item at 3758 cycles. After running 3215 cycles at 12 mils, 311 cycles at 18 mils, and 231 cycles at 21 mils, the South test structure did not crack through. The south inner vertical edge crack propagated only 0.5 inches during the 21 mil testing, for a total length of 2.5 inches. The South outer vertical edge shows no crack. The surface of the South test section has no cracks. The North test structure remains the same since the completion of the 12 mil test cycles.

An SRA technician obtained (5) core samples (6” in diameter) from each Phase IV test section along the joint at the direction of a Gemini engineer. For each test section, (2) cores were obtained along each edge and (3) were obtained at the middle. A total of (10) samples were obtained between both test sections. A portable core drill with a 6 inch I.D. core bit was used to drill the cores. A shop vacuum was used to remove excess water during coring and clean-out the core holes upon completion, as shown in Figure 1,

A survey consultant from Rodriguez began the 5-by-5 foot elevation survey on the finished P-209 base layer of the outdoor test area.



(a)



(b)

Figure 1. Coring the Test Section.