PARETTE SOMJEN ARCHITECTS

MEMORANDUM

MEMORANDUM INFORMATION

Date of Issuance: November 22, 2019

Issued By: Joshua Thompson, AIA

Regarding: Wall Monitoring at Stillwater School

PSA Project No: 7087

DISTRIBUTION

William Kochis (BOE)
René Metzgar (BOE)
Joshua Thompson (PSA)
Lionel Camacho (PSA)
Tracy Boss (PSA)

REMARKS

On November 11, 2016, PSA installed meters to monitor (5) wall cracks as identified by BOE & PSA in previous walkthrough. PSA has been monitoring all meters & taking readings periodically. The following observations were noted at each meter from date of installation to most recent reading on November 13, 2019 (please note minor or no movement refers to a reading movement of less than 0.5mm).

Meter #01 - Appears to have minor or no movement since installation

Meter #02 - 2017-01-16: New meter re-install
- 2018-09-26: Meter appears to have been disturbed
- 2019-11-13: Meter appears to have been disturbed

Meter #03 - 2017-08-24: New meter re-install
- Appears to have minor or no movement since re-installation

Meter #04 - 2016-12-29: Appears to have movement 0.5mm along Y-Axis: minor or no movement along X-Axis
- No additional movement observed in subsequent readings

Meter #05 - 2019-11-13: Appears to have movement 0.5mm along X-Axis: minor or no movement along Y-Axis

Please review & forward internally as needed and notify us of any questions, comments or concerns within 3 business days. Should you require additional information, please do not hesitate to contact us.

Sincerely,
PARETTE SOMJEN ARCHITECTS, LLC

Joshua Thompson, AIA
Associate

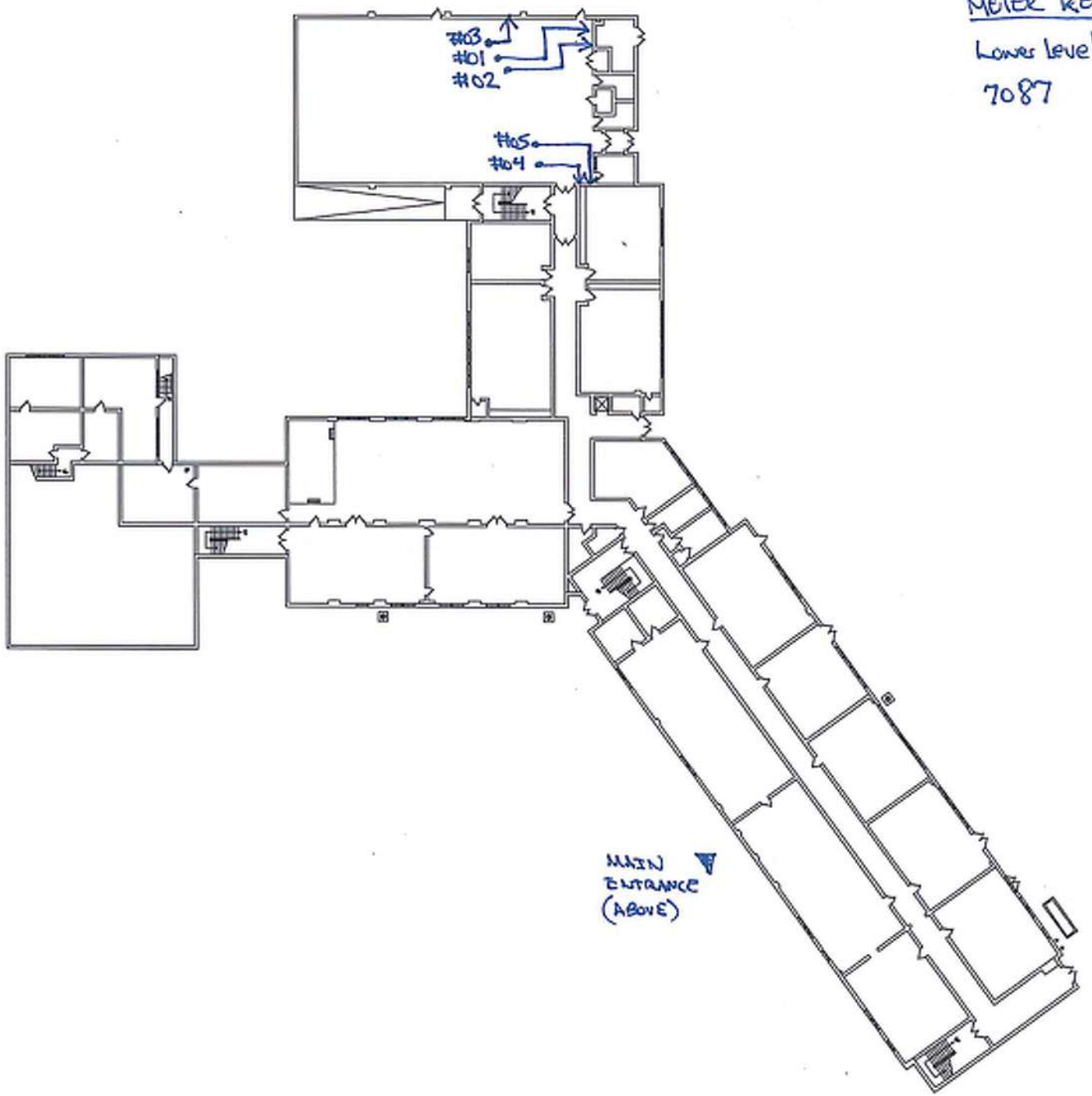
439 Route 46 East
Rockaway, NJ 07866
p 973 586 2400
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METER KEY MAP

Lower Level - Gym

7087



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Location of Tell Tale Meter 01 Sound System

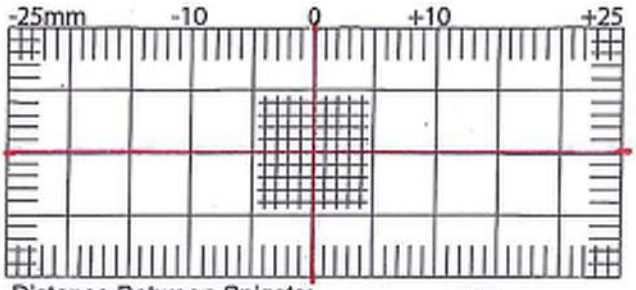
Corner Tell-Tale
Crack Monitoring Record

Indicate on the diagrams below the Tell-Tale movement at each reading after the crack widths have been measured using the Avongard Crack Width Gauge.

+ Represents crack opening and.
- Represents crack closing on the horizontal scale

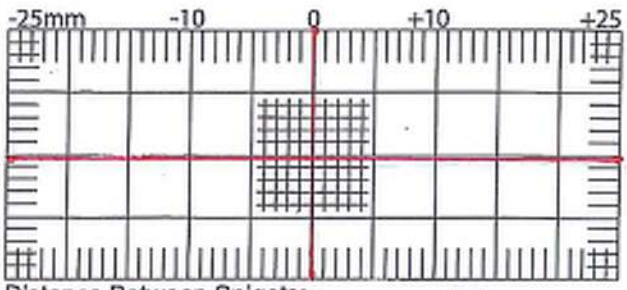
To download this Monitoring Record as a PDF file and to view the latest products from Avongard please visit www.avongard.co.uk

Date of Reading: 2016-11-11



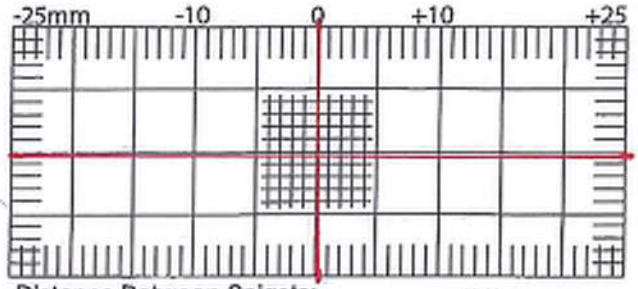
Distance Between Spigots: _____ mm

Date of Reading: 2017-02-21



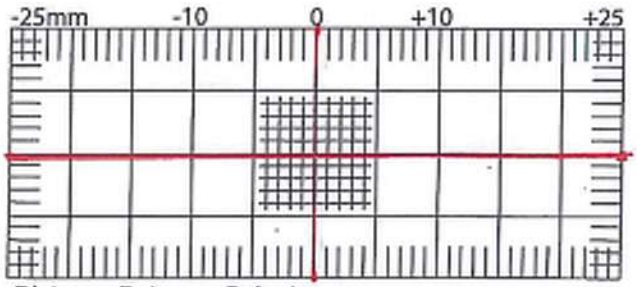
Distance Between Spigots: _____ mm

Date of Reading: 2016-12-29



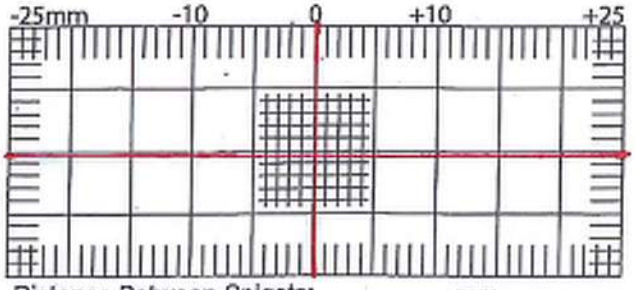
Distance Between Spigots: _____ mm

Date of Reading: 2017-04-21



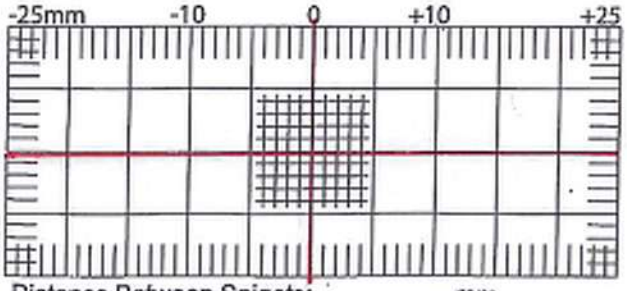
Distance Between Spigots: _____ mm

Date of Reading: 2017-01-16



Distance Between Spigots: _____ mm

Date of Reading: 2017-07-12



Distance Between Spigots: _____ mm

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Location of Tell Tale Meter 01 Sound System

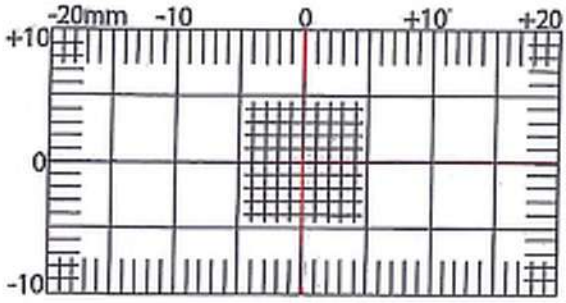
Standard Tell-Tale
Crack Monitoring Record

Indicate on the diagrams below the Tell-Tale movement at each reading after the crack widths have been measured using the Avongard Crack Width Gauge.

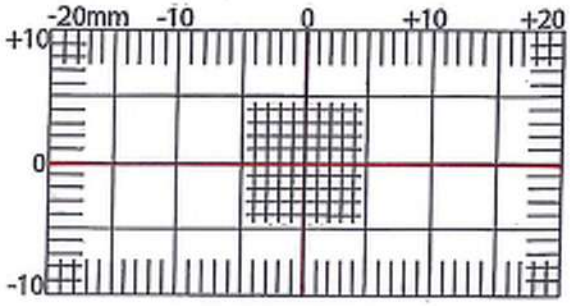
+ Represents crack opening and
- Represents crack closing on the horizontal scale.

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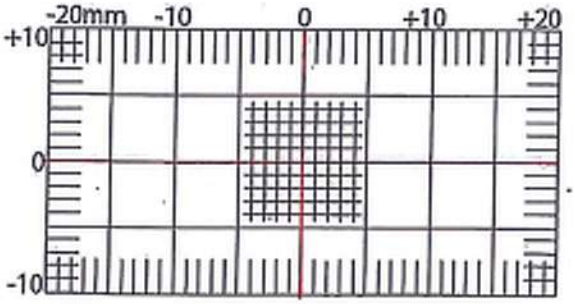
Date of Reading: 2017-07-12



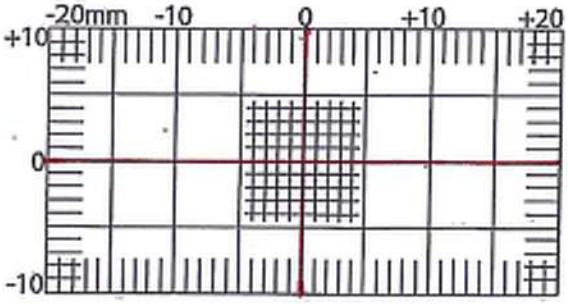
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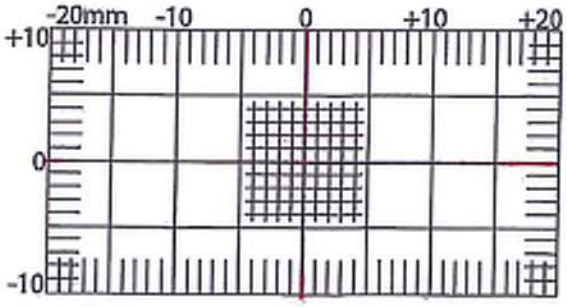
Date of Reading: 2017-08-24



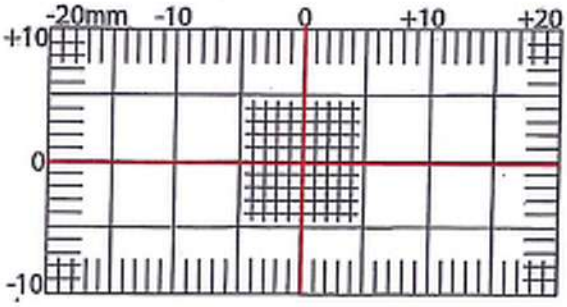
Date of Reading: 2018-09-26



Date of Reading: 2017-10-04

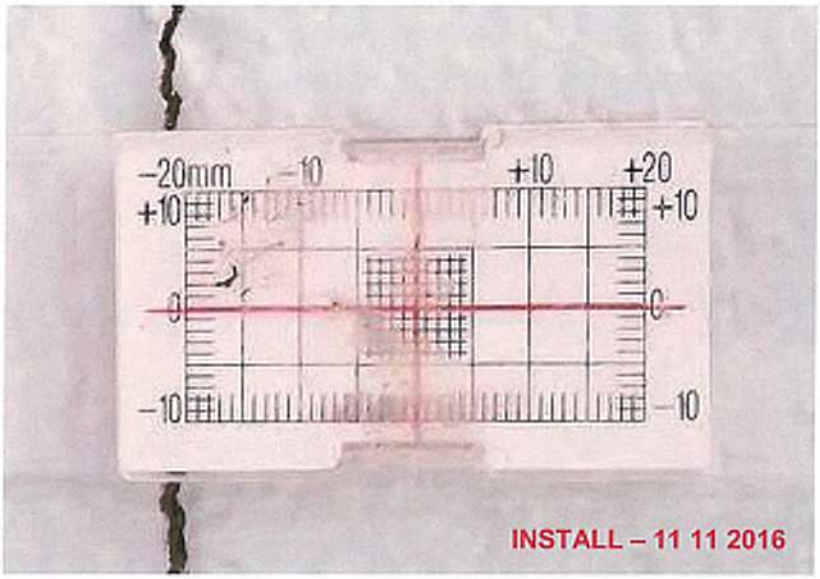


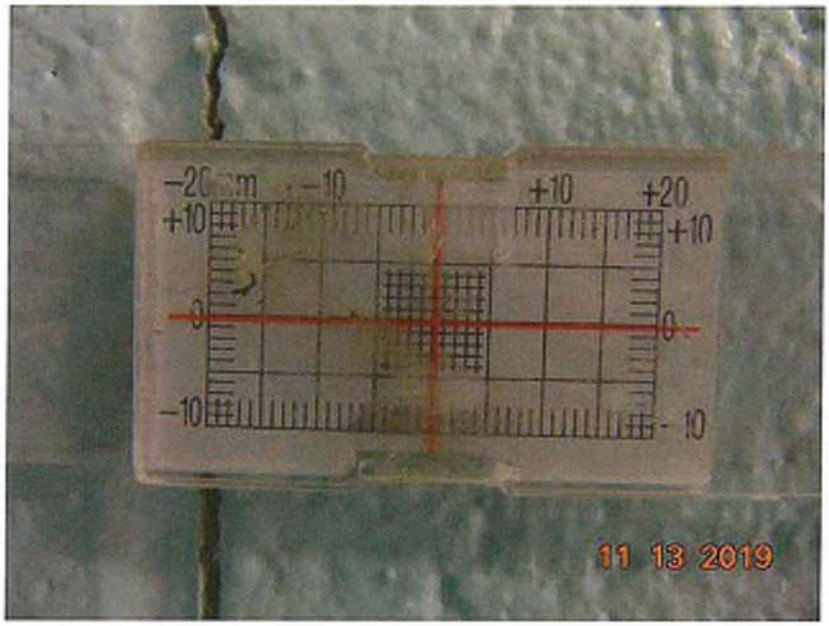
Date of Reading: 2019-11-13



METER #01


11 11 2016


-20mm -10 +10 +20
+10
0
-10
INSTALL – 11 11 2016


+10
0
-10
11 13 2019

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Location of Tell Tale Meter 02 Southeast

Corner Tell-Tale
Crack Monitoring Record

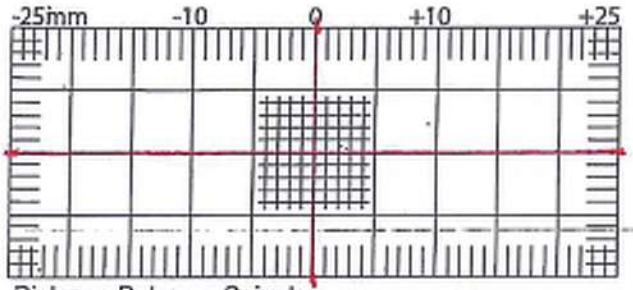
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\+ Represents crack opening and.

\- Represents crack closing on the horizontal scale

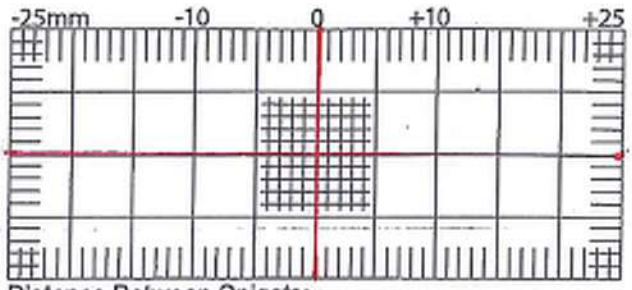
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Date of Reading: 2016-11-11



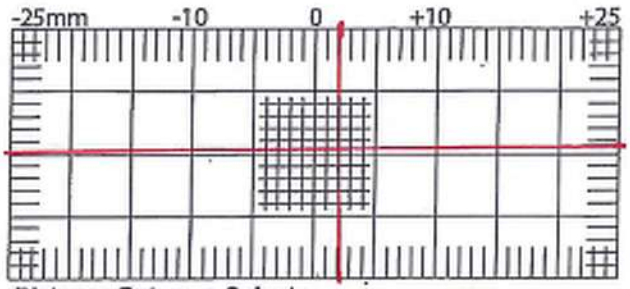
Distance Between Spigots: _____ mm

Date of Reading: 2017-02-21



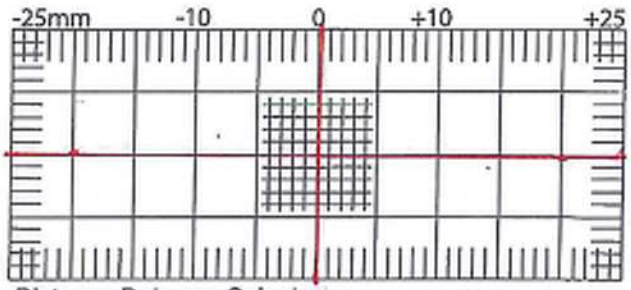
Distance Between Spigots: _____ mm

Date of Reading: 2016-12-29



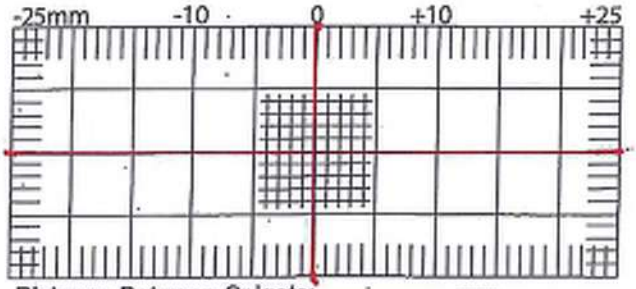
Distance Between Spigots: _____ mm

Date of Reading: 2017-04-21



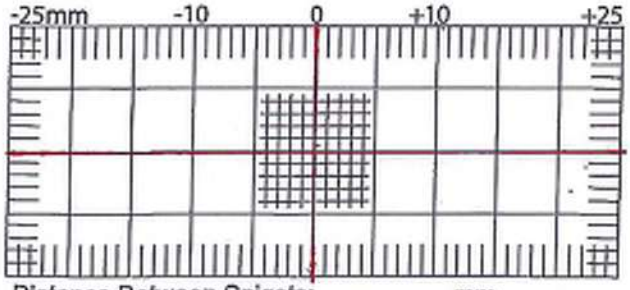
Distance Between Spigots: _____ mm

Date of Reading: 2017-01-16 (NEW INSTALL)



Distance Between Spigots: _____ mm

Date of Reading: 2017-07-12



Distance Between Spigots: _____ mm

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Standard Tell-Tale
Crack Monitoring Record

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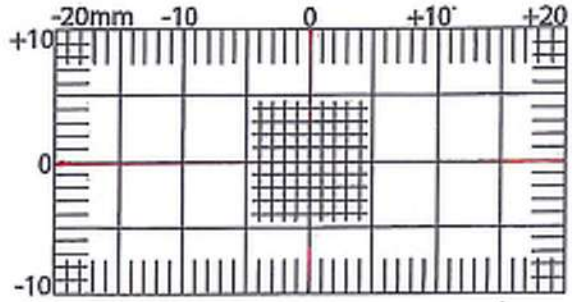
Location of Tell Tale Meter 02 Southeast

Indicate on the diagrams below the Tell-Tale movement at each reading after the crack widths have been measured using the Avongard Crack Width Gauge.

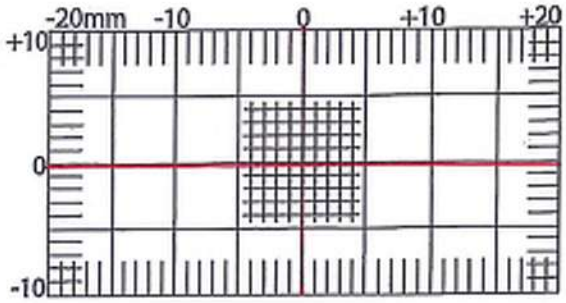
+ Represents crack opening and
- Represents crack closing on the horizontal scale

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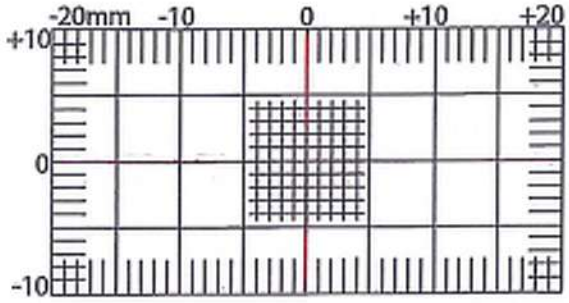
Date of Reading: 2017-07-12



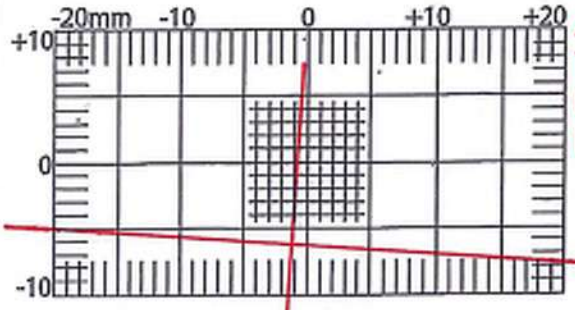
Date of Reading: 2017-12-06



Date of Reading: 2017-08-24

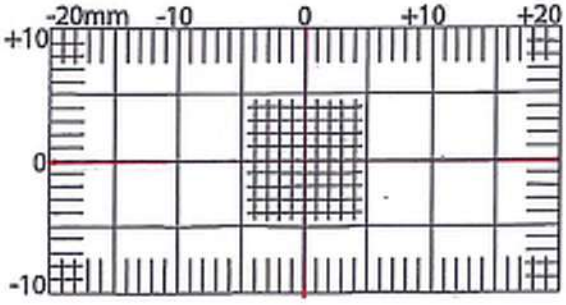


Date of Reading: 2018-09-26

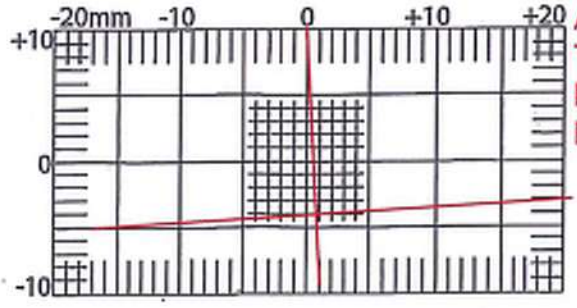


*METER APPEARS TO HAVE BEEN DISTURBED

Date of Reading: 2017-10-04



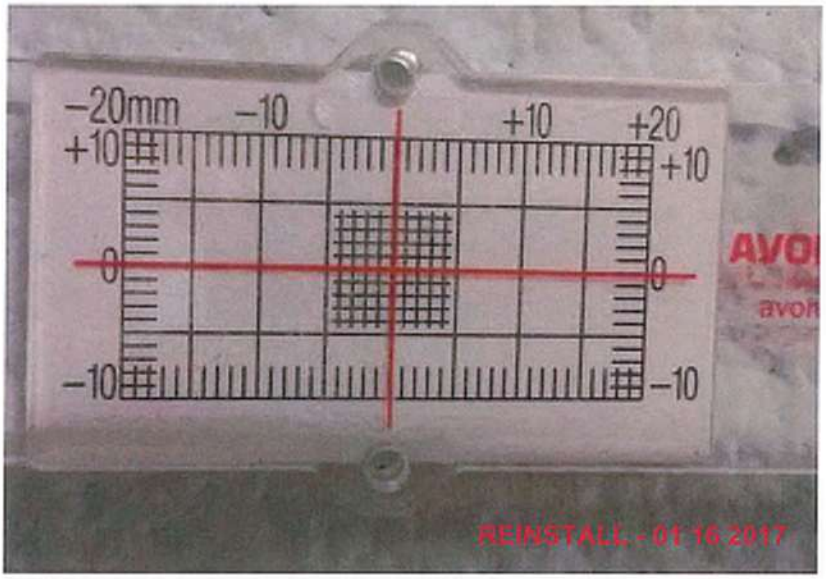
Date of Reading: 2019-11-13

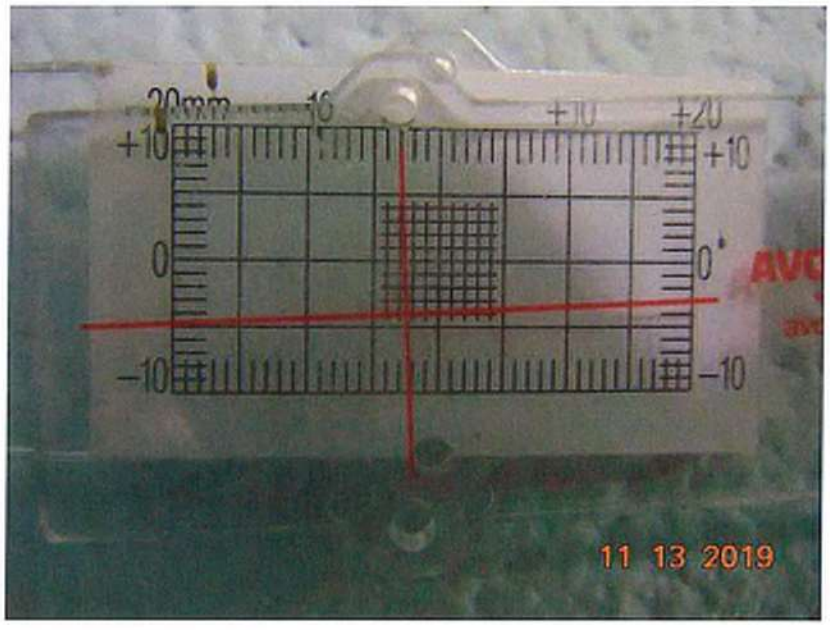


*METER APPEARS TO HAVE BEEN DISTURBED

METER #02


11 13 2019


-20mm
-10
+10
+20
+10
0
-10
REINSTALL - 01 16 2017


+10
0
-10
11 13 2019

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Location of Tell Tale Meter 03 Windows

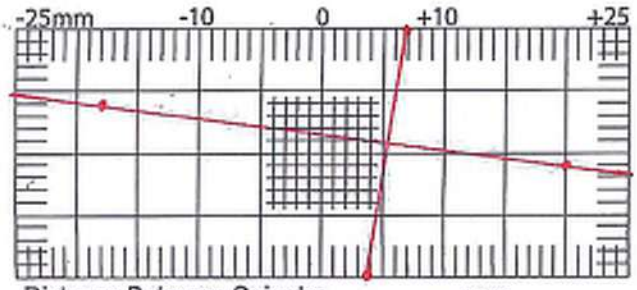
Corner Tell-Tale
Crack Monitoring Record

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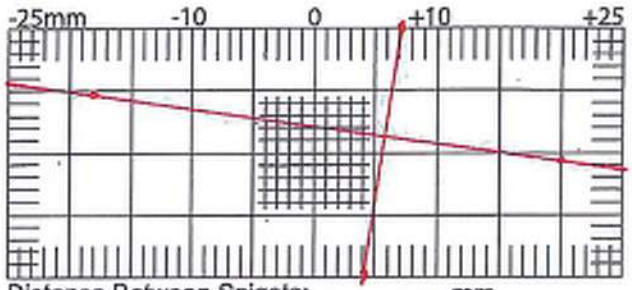
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Date of Reading: 2016-11-11



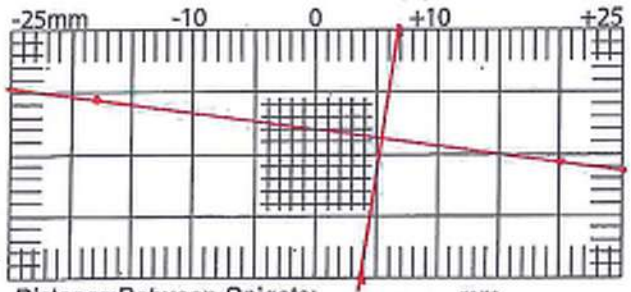
Distance Between Spigots: _____ mm

Date of Reading: 2017-02-21



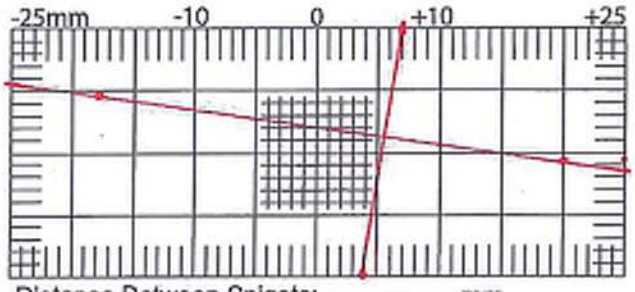
Distance Between Spigots: _____ mm

Date of Reading: 2016-12-29



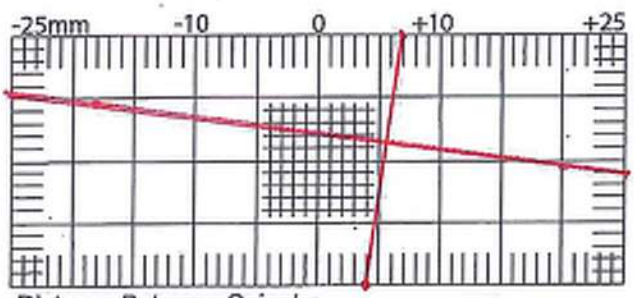
Distance Between Spigots: _____ mm

Date of Reading: 2017-04-21



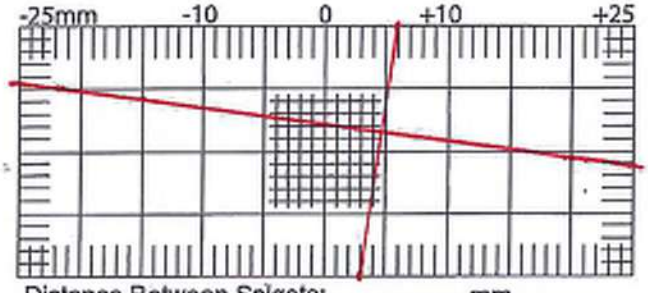
Distance Between Spigots: _____ mm

Date of Reading: 2017-01-16



Distance Between Spigots: _____ mm

Date of Reading: 2017-07-12



Distance Between Spigots: _____ mm

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Location of Tell Tale Meter 03 Windows

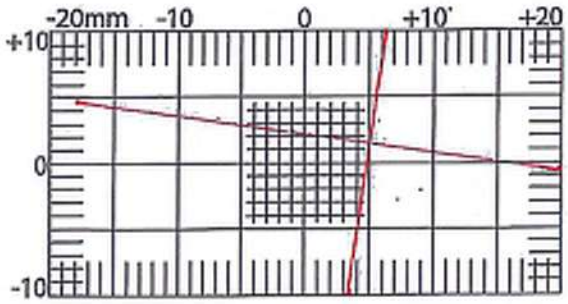
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Crack Monitoring Record

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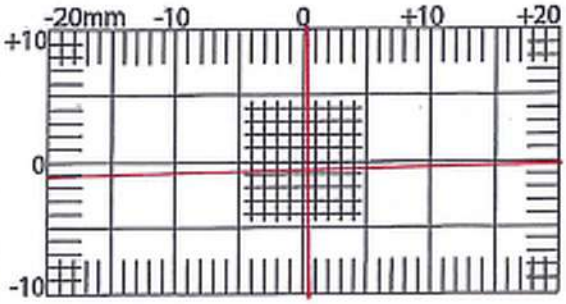
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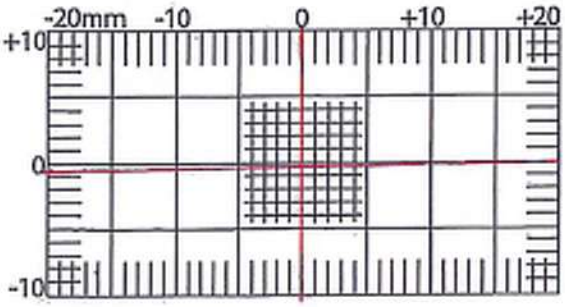
Date of Reading: 2017-08-24



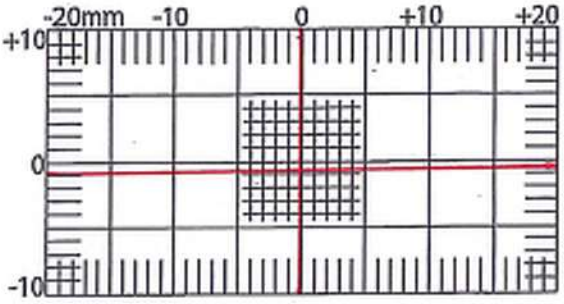
Date of Reading: 2017-12-06



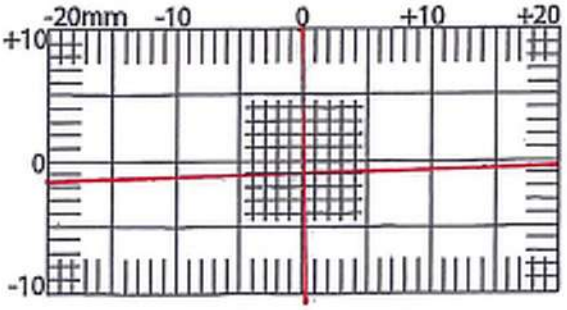
Date of Reading: 2017-08-24 (Replaced)



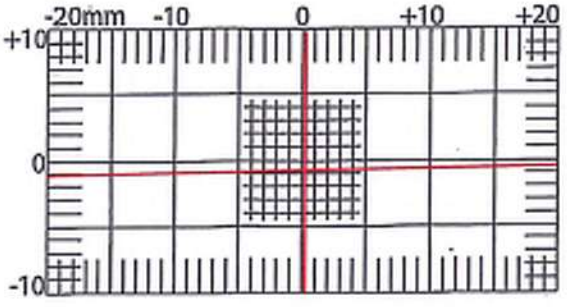
Date of Reading: 2018-09-26



Date of Reading: 2017-10-04

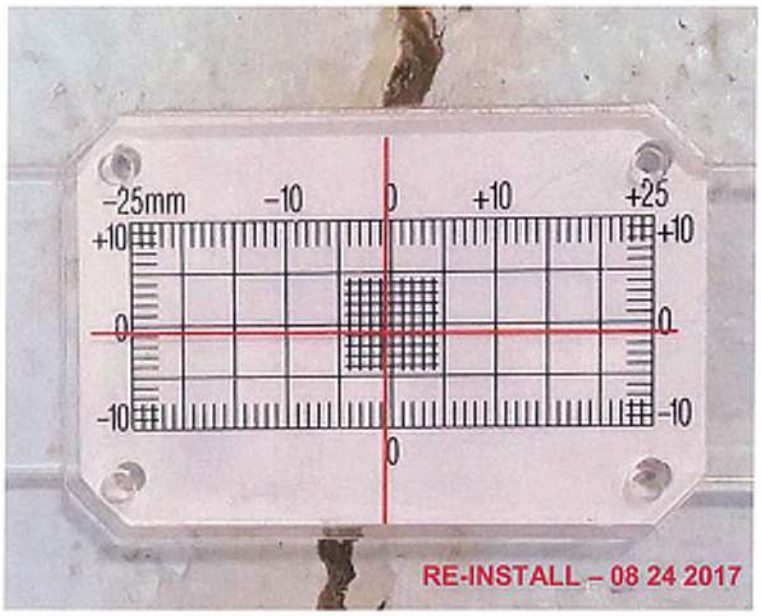


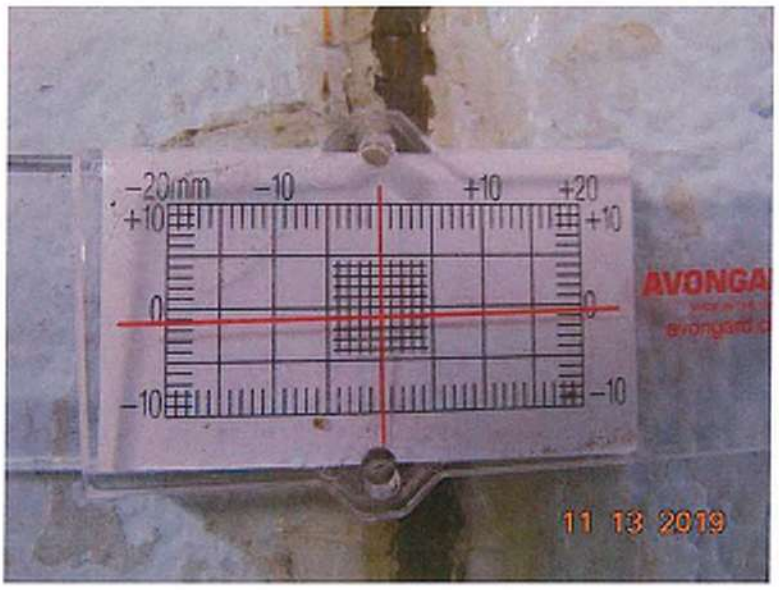
Date of Reading: 2019-11-13



METER #03


11 13 2019


-25mm
-10
0
+10
+25
+10
0
-10
RE-INSTALL – 08 24 2017


-20mm
-10
+10
+20
+10
0
-10
11 13 2019

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Location of Tell Tale Meter 04 Main Entry

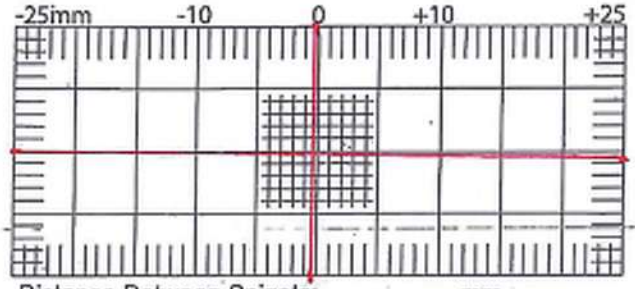
Corner Tell-Tale
Crack Monitoring Record

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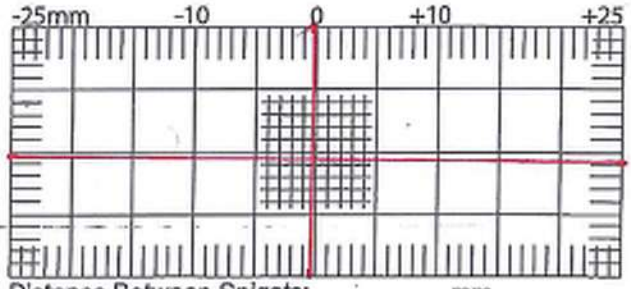
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Date of Reading: 2016-11-11



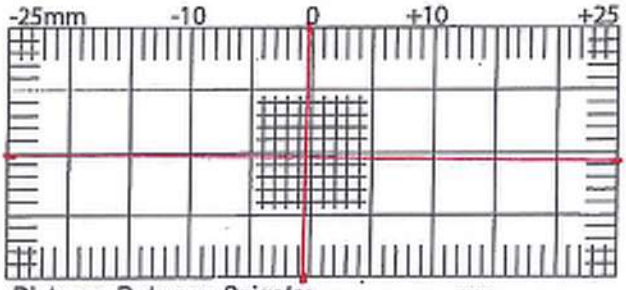
Distance Between Spigots: _____ mm

Date of Reading: 2017-02-21



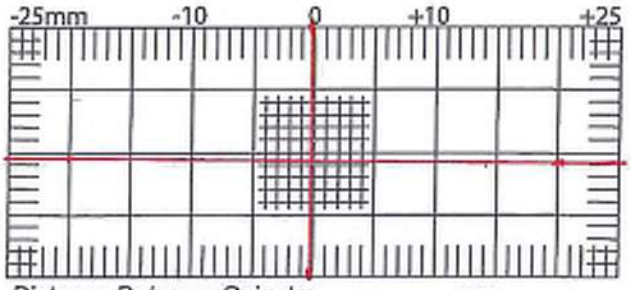
Distance Between Spigots: _____ mm

Date of Reading: 2016-12-29



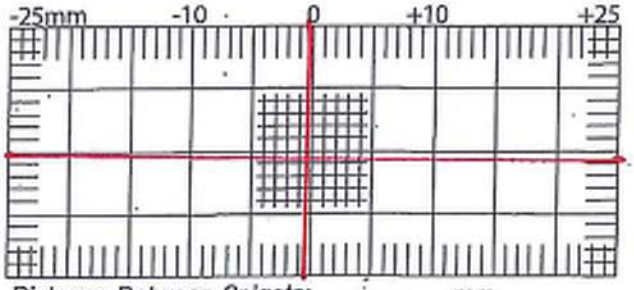
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Date of Reading: 2017-04-21



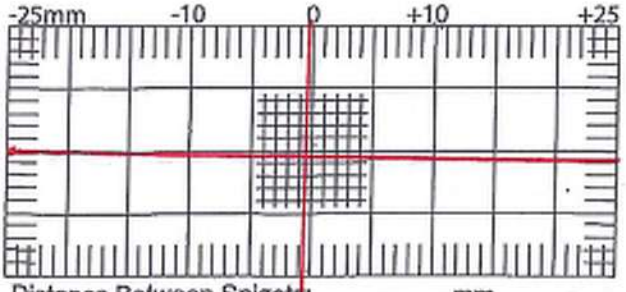
Distance Between Spigots: _____ mm

Date of Reading: 2017-01-16



Distance Between Spigots: _____ mm

Date of Reading: 2017-07-12



Distance Between Spigots: _____ mm

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SPECIALISTS IN STRUCTURAL MONITORING EQUIPMENT

Corner Tell-Tale
Crack Monitoring Record

Project 7087

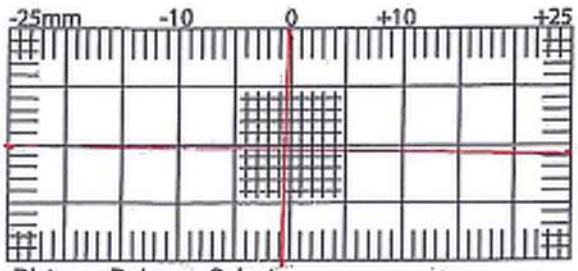
Location of Tell Tale Meter 04 Main Entry

Indicate on the diagrams below the Tell-Tale movement at each reading after the crack widths have been measured using the Avongard Crack Width Gauge.

+ Represents crack opening and
- Represents crack closing on the horizontal scale

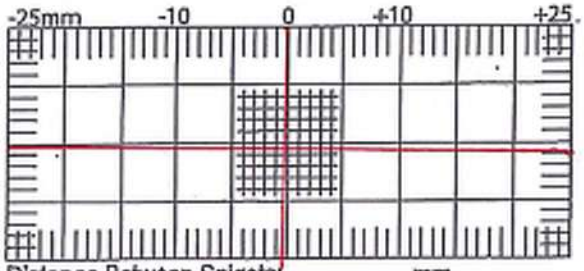
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Date of Reading: 2017-07-12



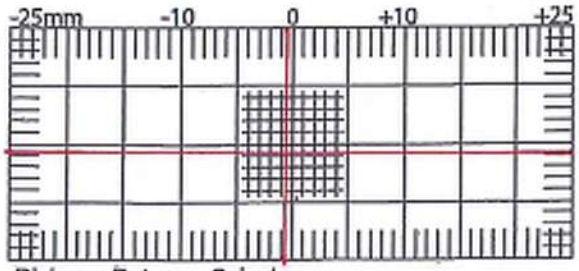
Distance Between Spigots: _____ mm

Date of Reading: 2017-12-06



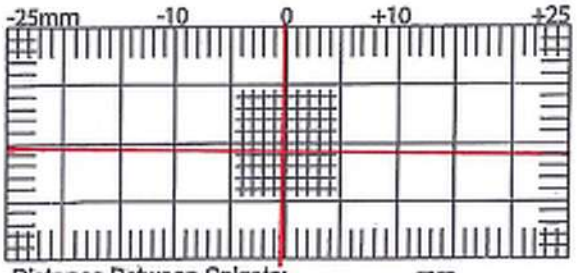
Distance Between Spigots: _____ mm

Date of Reading: 2017-08-24



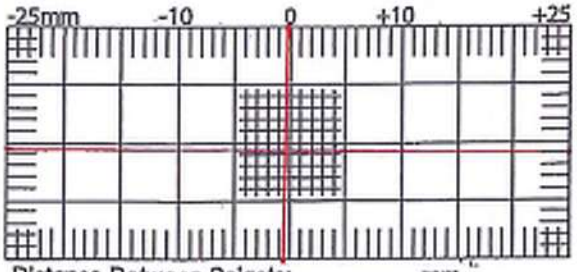
Distance Between Spigots: _____ mm

Date of Reading: 2018-09-26



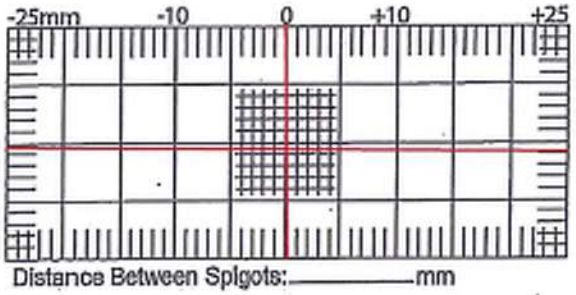
Distance Between Spigots: _____ mm

Date of Reading: 2017-10-04



Distance Between Spigots: _____ mm

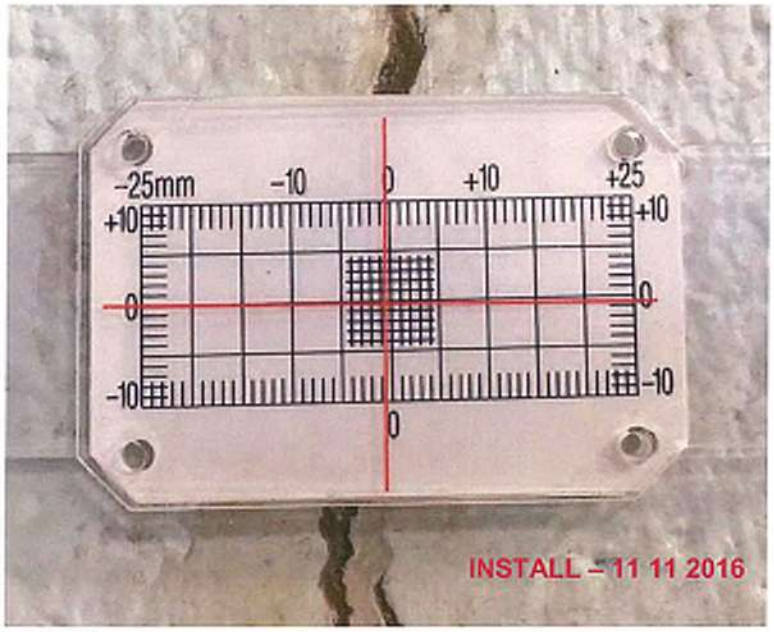
Date of Reading: 2019-11-13

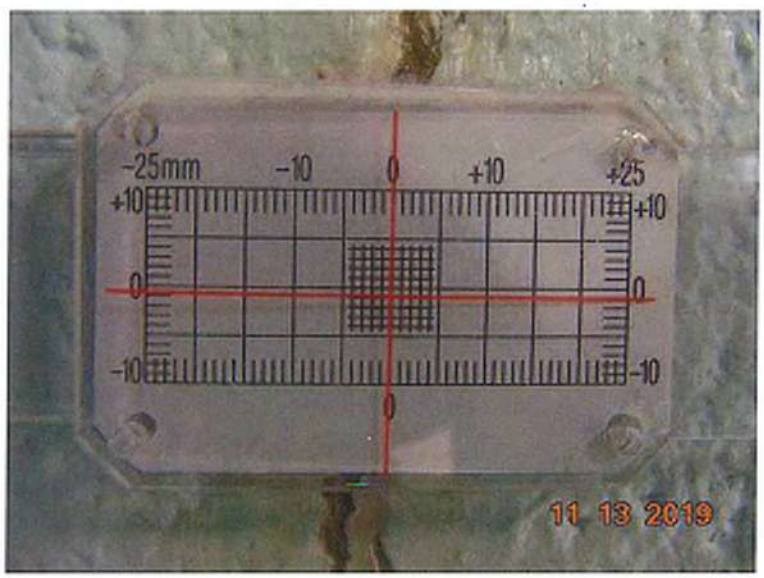


Distance Between Spigots: _____ mm

METER #04


12 29 2016


-25mm
-10
0
+10
+25
+10
0
-10
INSTALL – 11 11 2016


-25mm
-10
0
+10
+25
+10
0
-10
11 13 2019

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Location of Tell Tale Meter 05 Southwest

Corner Tell-Tale
Crack Monitoring Record

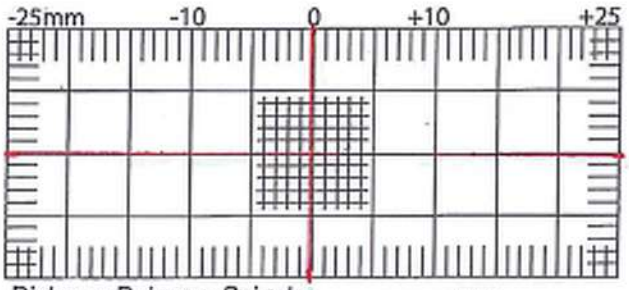
Indicate on the diagrams below the Tell-Tale movement at each reading after the crack widths have been measured using the Avongard Crack Width Gauge.

\+ Represents crack opening and.

\- Represents crack closing on the horizontal scale

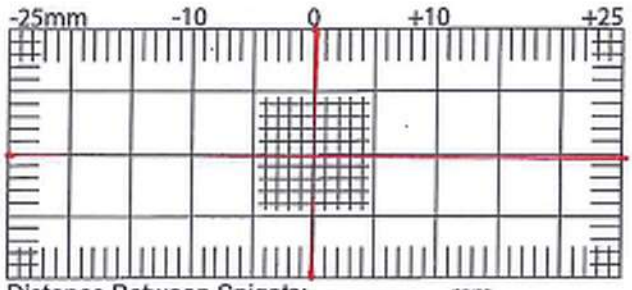
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Date of Reading: 2016-11-11



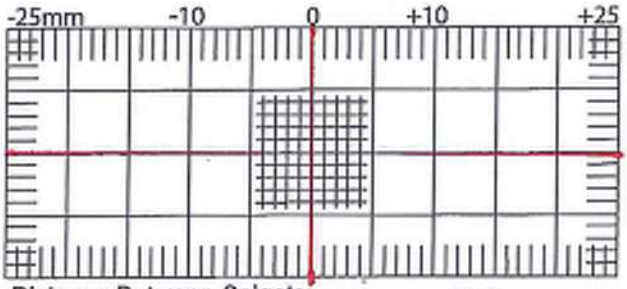
Distance Between Spigots: _____ mm

Date of Reading: 2017-02-21



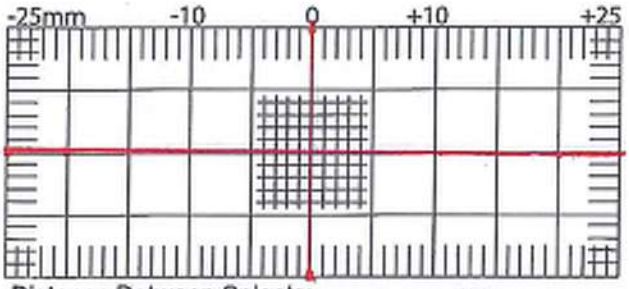
Distance Between Spigots: _____ mm

Date of Reading: 2016-12-29



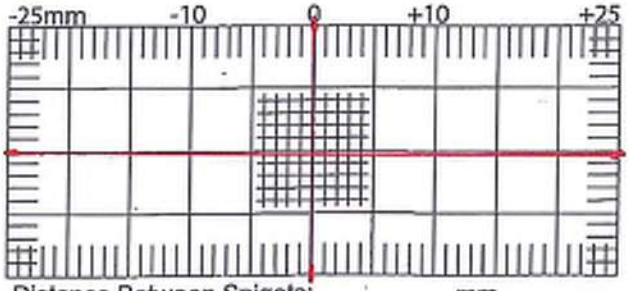
Distance Between Spigots: _____ mm

Date of Reading: 2017-04-21



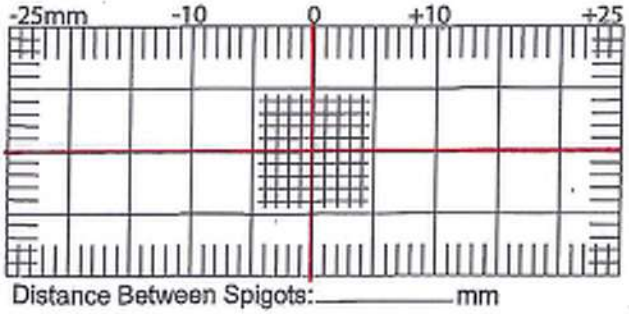
Distance Between Spigots: _____ mm

Date of Reading: 2017-01-16



Distance Between Spigots: _____ mm

Date of Reading: 2017-07-12



Distance Between Spigots: _____ mm

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Location of Tell Tale Meter 05 Southwest

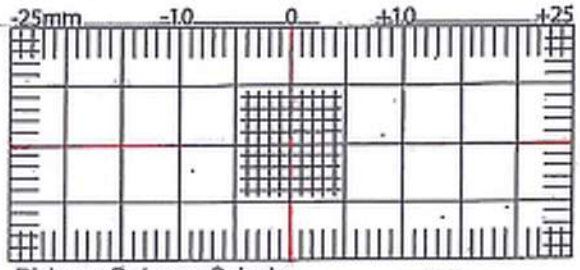
Corner Tell-Tale
Crack Monitoring Record

Indicate on the diagrams below the Tell-Tale movement at each reading after the crack widths have been measured using the Avongard Crack Width Gauge.

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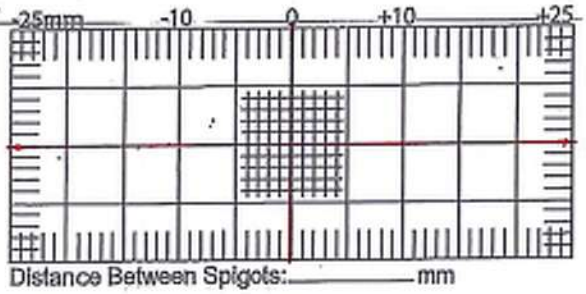
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Date of Reading: 2017-07-12



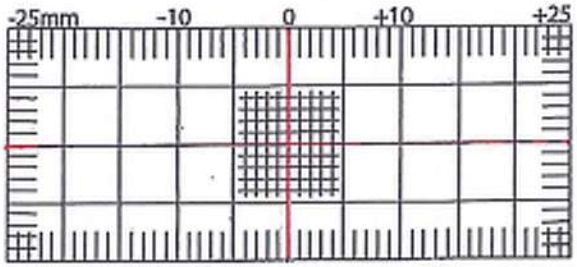
Distance Between Spigots: _____ mm

Date of Reading: 2017-12-06



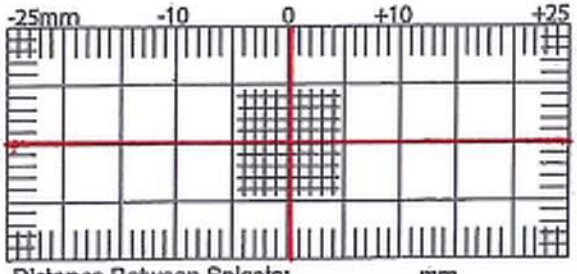
Distance Between Spigots: _____ mm

Date of Reading: 2017-08-24



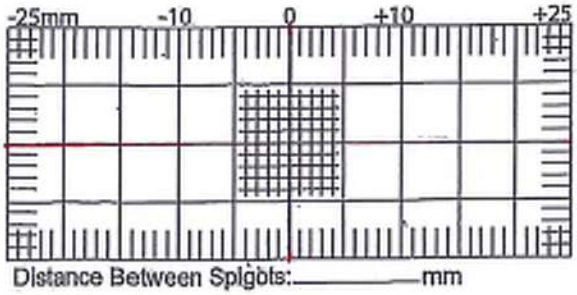
Distance Between Spigots: _____ mm

Date of Reading: 2018-09-26



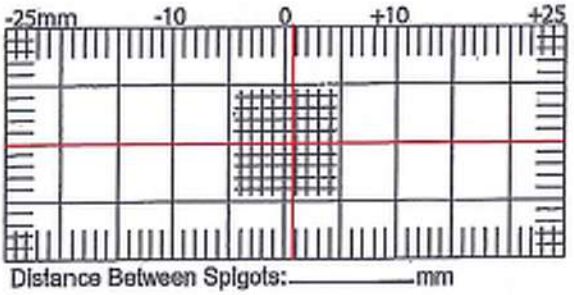
Distance Between Spigots: _____ mm

Date of Reading: 2017-10-04



Distance Between Spigots: _____ mm

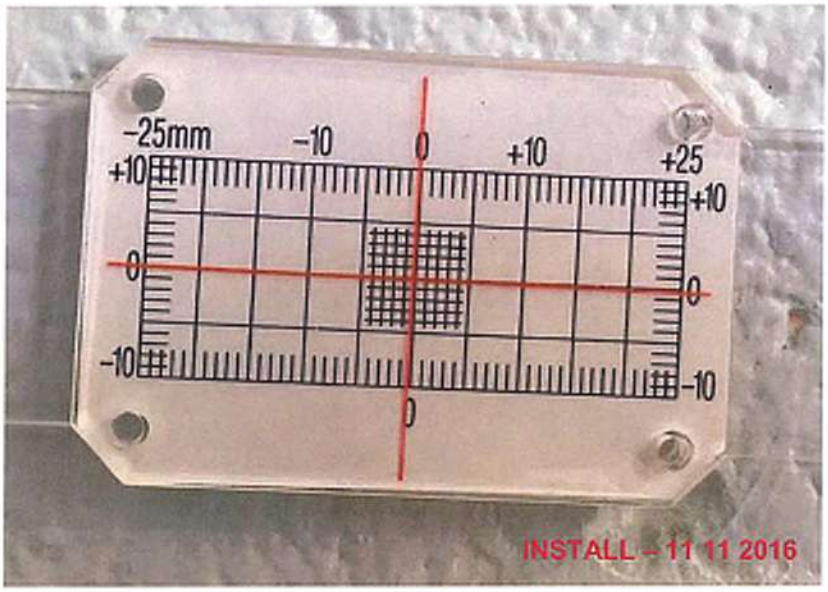
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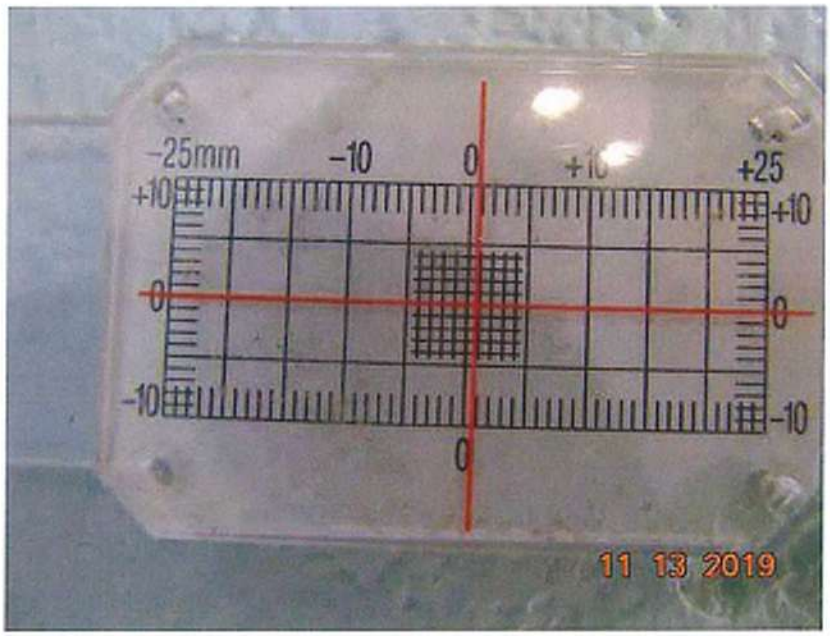


Distance Between Spigots: _____ mm

METER #05


C115
01 16 2017


-25mm
-10
0
+10
+25
+10
0
-10
INSTALL – 11 11 2016


-25mm
-10
0
+10
+25
+10
0
-10
11 13 2019

PARETTE SOMJEN ARCHITECTS

MEMORANDUM

MEMORANDUM INFORMATION

Date of Issuance: December 12, 2019

Issued By: Joshua Thompson, AIA

Regarding: Wall Monitoring at Stillwater School

PSA Project No: 7087

DISTRIBUTION

René Metzgar (BOE)
Michael Maggio (BOE)
Joshua Thompson (PSA)
Tracy Boss (PSA)

REMARKS

Regarding the wall cracks previously-identified in 11/22 memorandum, PSA recommends to District the following:

- All five (5) existing masonry cracks that were within the scope of the monitoring should be sealed in their entirety along their respective wall.
  - Existing masonry should be prepared as required to receive new materials, namely the cracks should be routed out to a 1/2" width, minimum 1" deep.
  - Cracks should then be infilled with new grout & sealant; PSA product recommendation to follow.
  - Walls should be finished with new paint at area of work to match adjacent surfaces.
- Once sealed & painted, BOE should visually monitor locations thereafter & advise PSA of further cracks and/or noticeable movement.

Note: The approach above may be taken for any wall cracks noticed in the gymnasium or adjacent areas even if they weren't specifically monitored as part of this project.

Please review & forward internally as needed and notify us of any questions, comments or concerns. Should you require additional information, please do not hesitate to contact us.

Sincerely,
PARETTE SOMJEN ARCHITECTS, LLC

Joshua Thompson, AIA
Associate

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Rockaway, NJ 07866
p 973 586 2400
f 973 586 2401
www.planetpsa.com

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