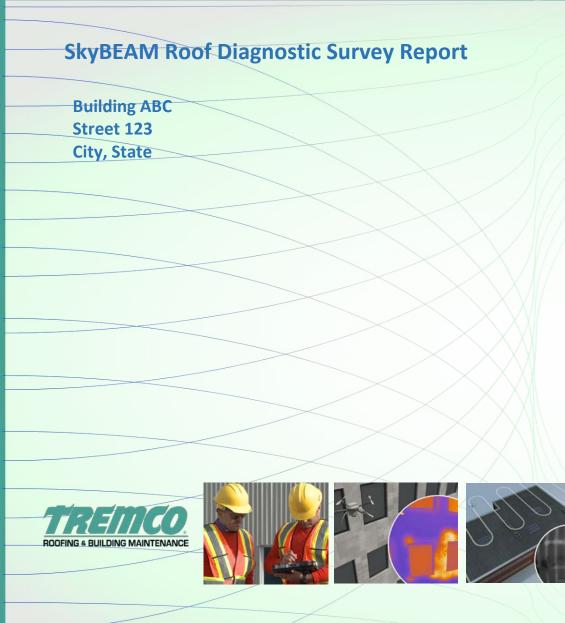
Sample Report Hospital, Commercial and School Facilities





Company Logo

Tremco Roofing and Building Maintenance 3735 Green Road Beachwood, OH, 44122 Tremco Roofing and Building Maintenance 50 Beth Nealson Dr. Toronto, ON, CA

Dates

Day Time Flight: July 4, 2016 Night Time Flight: July 4, 2016

Environmental Conditions

DAYTIME Not Recorded Wind: < 20 kph High Temperature: 28° Low Temperature: 27° Relative Humidity: 28% Altitude: 75m

NIGHT TIME (Thermal) Not Recorded Wind: < 5 kph High Temperature: 19° Low Temperature: 17° Relative Humidity: 53% Altitude: 55m

Inspection Equipment

Unmanned Aerial System: Aeryon Labs SkyRanger Thermographic Camera: FLIR Quark

Inspection Personnel

Director of Operations: Ian Hannah Pilot: Jordan McPhail Ground Supervisor: Jason Eaton

Thermographer

Christopher J. Spagnola Certified ASNT TC Level II Thermographer

Drawings

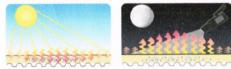
TITLE PAGE SURVEY INFORMATION INVESTIGATION SUMMARY SHEET A AERIAL OVERVIEW IMAGE OF ROOF SHEET B THERMAL OVERVIEW IMAGE OF ROOF SHEET C **ROOF PLAN** SHEET D **AREA OF SURVEY 1 AREA OF SURVEY 2** SHEET E SHEET F **AREA OF SURVEY 3** SHEET G AREA OF SURVEY 4 SUSPECT AREA SUMMARY SUSPECT AREA SUMMARY (CONTINUED 1) SUSPECT AREA SUMMARY (CONTINUED 2) SUSPECT AREA SUMMARY (CONTINUED 3)

SkyBEAM Building Asset Assessment Objectives

INTRODUCTION

The SkyBEAM Building Envelope Asset Assessment represents an excellent value from a financial and asset management perspective as it focuses on in-depth analysis intended to reduce the risk of the need for major building envelope repairs and extend the performance life of the existing wall and roofing inventory assets. All work performed is entered into the On-Line Roof Management Program database (myoli.com), providing complete historical documentation and custom reports to assist with service delivery and long term planning.

How an Infrared Survey Works:



During the daytime, wet roof insulation absorbs more solar energy from the sun than dry roof insulation. During the nighttime, after the roof surface cools, the wet roof insulation will retain more solar energy than dry insulation and these temperature differences are detected by the infrared camera.

The wet roof areas are marked on the roof surface with visible paint markings. The wet roof areas are verified through core cuts and/or roof moisture density gauge.

How a Moisture Density Meter Works:

During the daytime, readings are taken and recorded in random locations and at wet areas found by the infrared camera.

Fast neutrons are emitted from the source in the Roof Moisture Density Gauge into the roof system. The presence of hydrogen in the roof system slows the neutrons. These slowed neutrons as well as the fast neutrons are detected by the Roof Moisture Density Gauge "detectors".



A reading is displayed in the digital readout and gets recorded. Core cuts are taken to determine a baseline for dry roof materials. Then wet roof areas are marked on the roof surface with visible paint markings.



SkyBEAM

Our thermal images and subsequent report are limited to the gathering, displaying and describing of the building's thermal signatures and temperatures at the time of inspection. We do not comment on the specific causal factors or possible ramifications these thermally detected abnormalities may indicate. Our descriptions of thermal anomalies are limited to what they appear to represent. For example air leakage, interstitial moisture, missing insulation etc. Tremco does not verify these descriptions with secondary physical or visual inspection nor do we determine or imply the cause of the thermal patterns reported. The thermal data in the infrared images displayed and discussed in the summary report do not purport to identify all building related problems or imply that others do not exist.

NOTE

BENEFITS OF THE SKYBEAM SYSTEM

SkyBEAM building envelope inspection service is a revolutionary new way to monitor your building's roof and walls for damage and energy loss. Using the latest in camera and drone technologies, SkyBEAM provides a previously unavailable level of understanding about the health of your building, all more safely and cost-effectively than was available in the past. SkyBEAM gives you:

Enhanced Worker Safety

- With SkyBEAM, there is no need to send workers into harm's way on rooftops or scaffolding to inspect roofing and other hard to reach parts of your building.

Lower Costs

– SkyBEAM eliminates the need for expensive equipment such as swing stages and boom trucks, and accelerates the inspection process significantly, reducing the time required from several days for a traditional manual inspection to a matter of minutes for a drone flight.

Better Data

– SkyBEAM's cutting edge technology allows for the most detailed and accurate building inspection reports available on the market today, reducing the need for verification and avoiding potentially costly oversights of developing problems.



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Investigation Summary

2 X AREA OF CONCERN 2 X DAMP AREA 53 X WET INSULATION

Total Roof Summary

Total Roof Area	# of Suspect	Total Area (sq.ft.)	% of Roof That
(sq.ft.*)	Areas		May Be Affected
398,071	57	34,042	8.55%

Roof Summary by Section

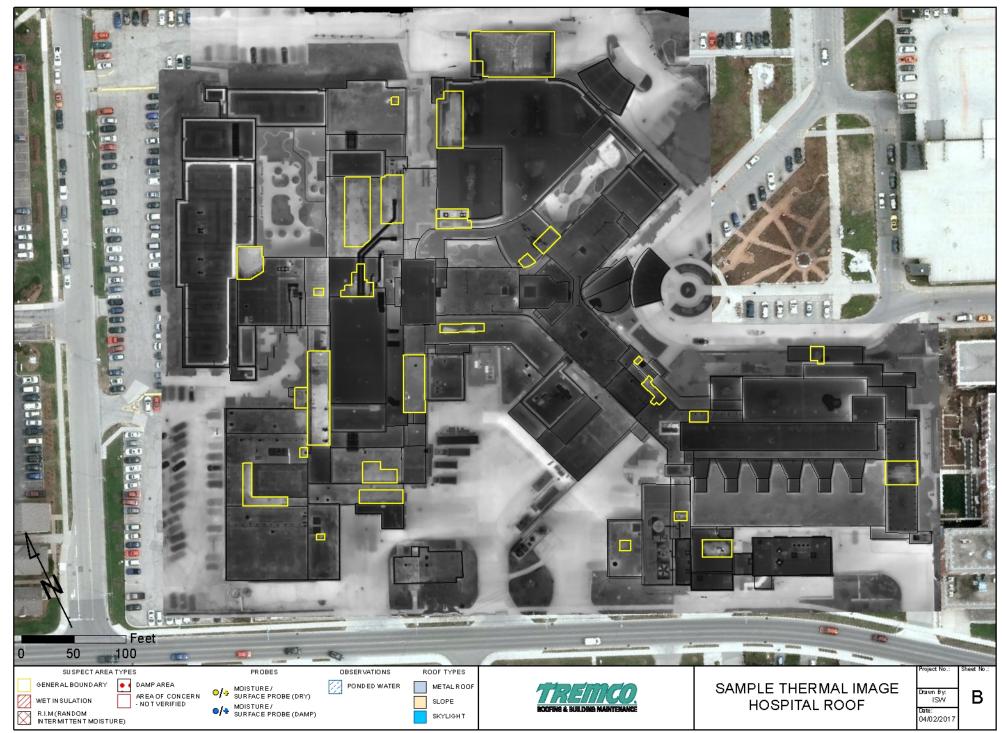
Roof Section	Suspect Area (sq.ft.)	Roof Section Area (sq.ft.*)	% of Roof Section Affected
103	725.00	3,722.00	19.48%
105	234.00	286.00	81.82%
106	45.00	2,187.00	2.06%
107	536.00	1,790.00	29.94%
108	48.00	3,641.00	1.32%
114	3,300.00	3,472.00	95.05%
121	103.00	1,808.00	5.70%
126	480.00	1,547.00	31.03%
132	194.00	1,113.00	17.43%
201	723.00	4,449.00	16.25%
203	1,936.00	2,463.00	78.60%
205	548.00	2,309.00	23.73%
207	1,148.00	1,148.00	100.00%
210	324.00	3,370.00	9.61%
212	1,612.00	13,540.00	11.91%
212-A	267.00	267.00	100.00%
216	111.00	1,143.00	9.71%
301	63.00	1,553.00	4.06%
403	336.00	4,556.00	7.37%
408	688.00	3,320.00	20.72%
502	450.00	2,740.00	16.42%
707	2,527.00	5,955.00	42.43%
708	562.00	1,881.00	29.88%
Total	17,082.00	199,036.00	8.58%

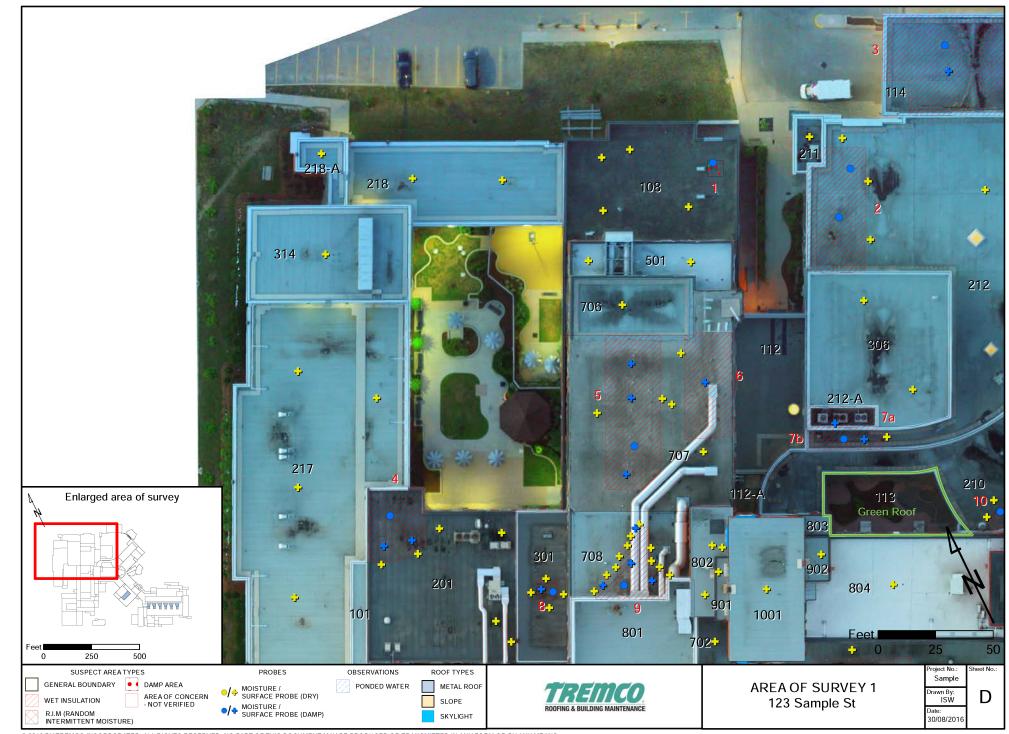


* Areas calculated from aerial imagery, may differ from building plans

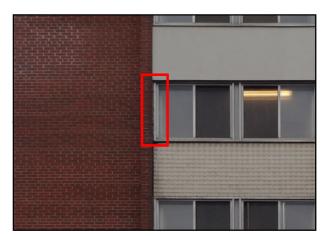


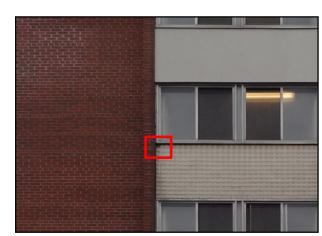








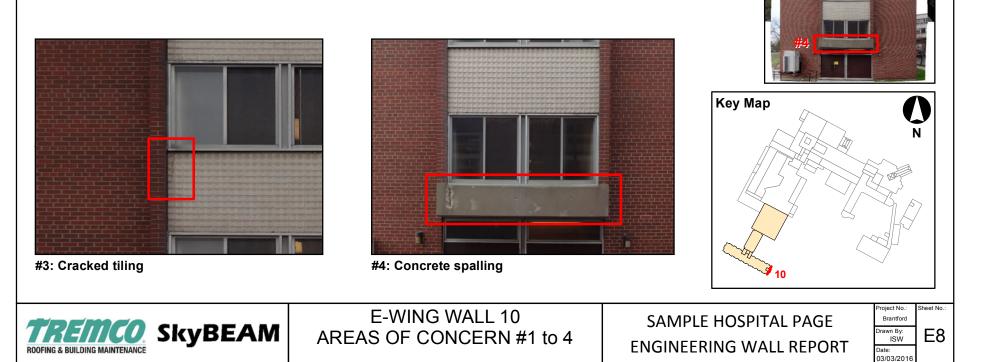


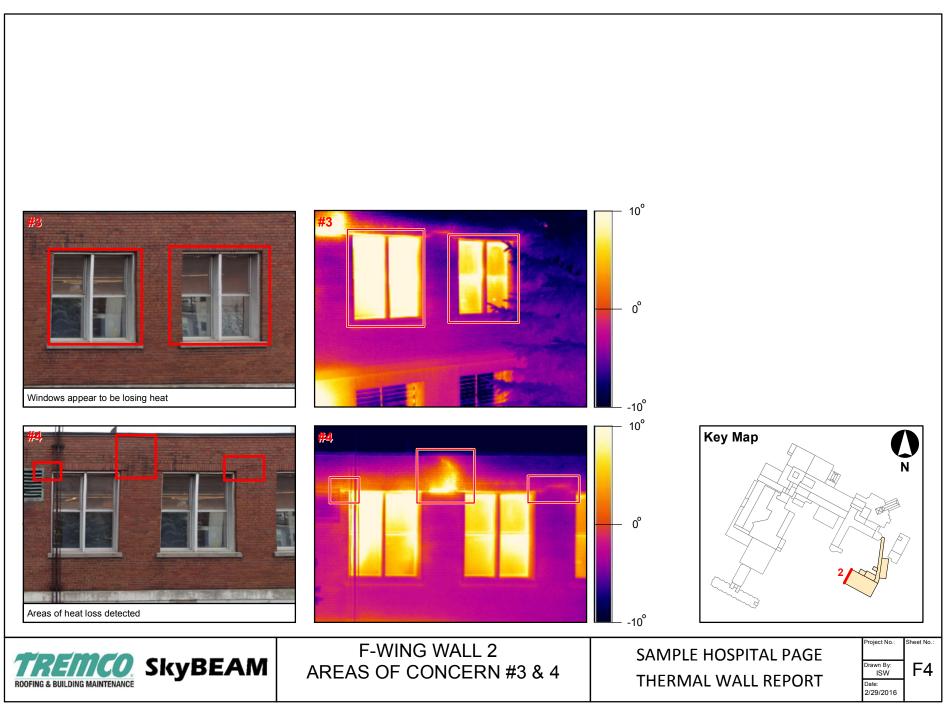


#3

#1: Caulking failed

#2: Tiling is falling off.

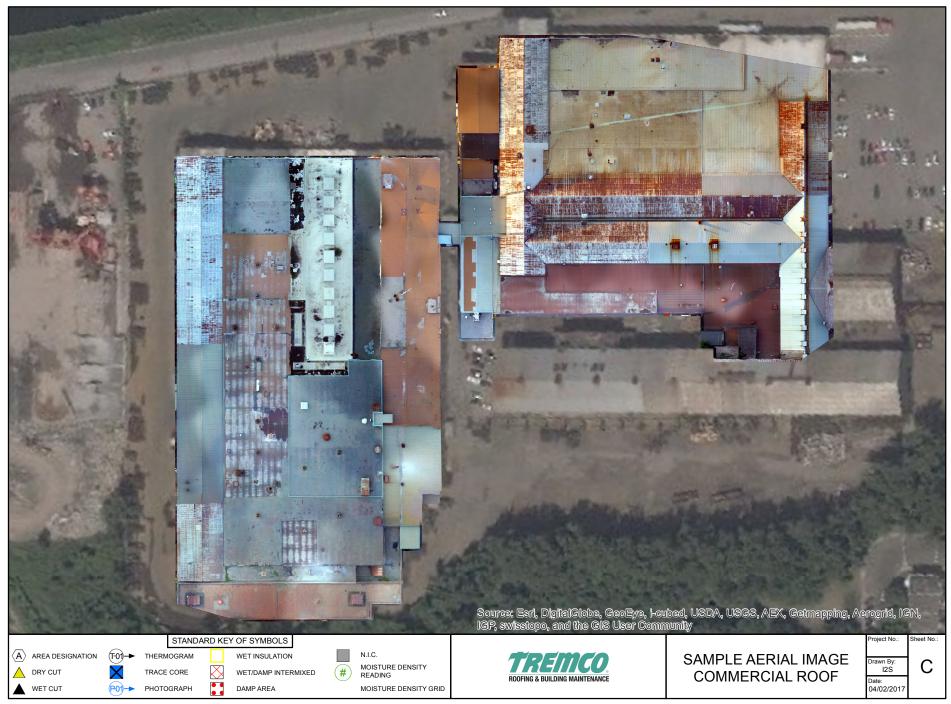


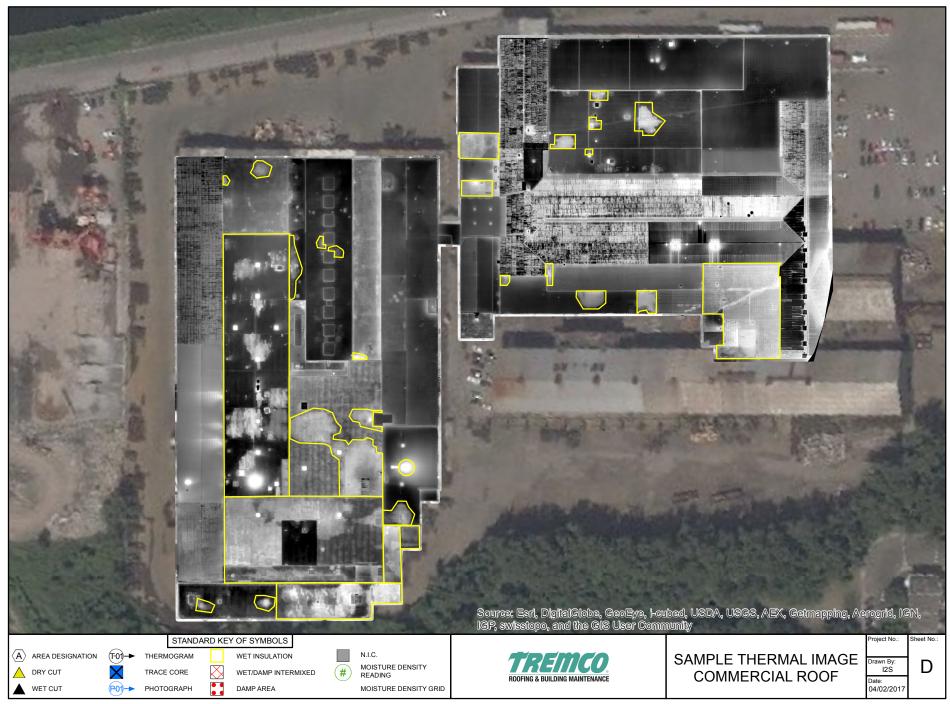


Additional Sample Imagery of Commercial and School Facilities

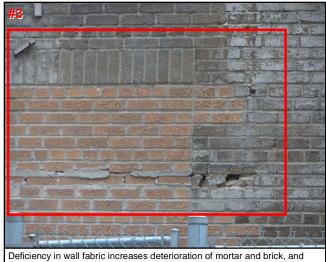














promotes water entry.



BACK SOUTH WALL AREAS OF CONCERN #1 to 3 SAMPLE COMMERCIAL PAGE ENGINEERING WALL REPORT



