



HALLIWELL

MATTHEW J. HILL, PE

NATIONAL DIRECTOR, ENGINEERING SERVICES

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SPECIALTIES

- Commercial and Low-slope Roof System Damage Analyses and Restoration
- Mechanical System Failure Cause and Extent of Damage Analyses
- Code Compliance Reviews
- Building Envelope Failure Analyses
- Construction Defect Analyses
- Hail- & Wind-Caused Damage Analyses
- Root Failure Cause Analyses
- Date of Damages Determinations
- Scope of Damage/Repairs Analyses
- Analysis of Code-Allowed and Manufacturer-Recommended Repair Options
- Energy Code Compliance Analysis in Conjunction with Restoration/Repair Projects
- Conceptual Repair Recommendations
- Construction Document Reviews and Analyses
- Intentional Mechanical Damage Analyses
- In-situ Roof System Testing (infrared, moisture survey, uplift, fastener pull-out)
- Moisture Intrusion Analyses
- Expert Witness & Litigation Support

BIOGRAPHY

Matt is a Licensed Professional Engineer in multiple states with over 15 years of experience in forensic engineering, damage assessment, litigation support, engineering management, and mentoring. Having provided forensic engineering and consulting services to various clients such as insurance companies, attorneys, and private entities, his professional services have included damage assessments, root cause analyses, scope of repairs determination, code requirement reviews, litigation support, and construction defect analyses. Matt's career also has included lab testing in multiple roofing labs as well as facilitating operation and assisting with development of an ISO 17025 accredited roofing testing laboratory.

Matt's extensive experience and training on matters related to roofing and building envelopes has included roof and building envelope failure analyses, damage assessments, scope of repairs determinations, construction defect litigation, material forensic testing, and in-situ testing of roofing assemblies. Matt's project involvement in storm-related damage analysis has spanned across many different types of facilities such as hospitals, shopping malls, universities, military establishments, high-rise buildings, commercial properties, manufacturing complexes, churches, multi-family facilities, private residences, and many others. This variety of facilities has encompassed many different roof types and a wide array of roof assemblies.

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Matt also provides mechanical engineering failure and damage consulting services, evaluating many mechanical systems such as grain elevators and agriculture systems, fire sprinkler systems, piping, conveyor systems, man-type elevators, air conditioning systems, boiler systems, oil and gas components, mechanical equipment, cooling towers, chillers, and more. These analyses have been as technical expert for both first- and third-party disputes. Using this experience, education, and knowledge, he also has analyzed multiple industrial accidents involving heavy machinery and other equipment.

Matt has provided expert witness testimony in deposition and in federal court, and he has dealt with files ranging in values from several thousand dollars to multi-million-dollar, multi-party disputes. Project sizes have ranged from multi-million square feet roofing projects, to commercial real estate portfolios, to small residential structures.

QUALIFICATIONS

B.S., Mechanical Engineering, Texas A&M University – College Station

INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Licensed Professional Engineer – AZ, AR, CO, FL, GA, IA, IL, KS, KY, LA, MI, MN, MO, NE, NM, OH, OK, SD, TN, TX (original license), WA
- NCEES Model Law Engineer ID: 14-300-31
- National Roofing Contractors Association (NRCA) member
- American Society of Mechanical Engineers (ASME) member (inactive)
- National Society of Professional Engineers (NSPE) member (inactive)
- Texas Society of Professional Engineers (TSPE) member (inactive)
- National Association of Fire Investigators (NAFI) member (inactive)

PROFESSIONAL EXPERIENCE

- Halliwell, National Director, Civil/Structural Engineering Services
- Halliwell, Assistant Director, Building Envelope & Engineering Services
- J.S. Held, Senior Engineer (Texas Area Lead and Southcentral Regional Lead)
- Haag Engineering, Associate Engineer

SPECIALIZED TRAINING AND CLASSES TAUGHT

- J.S. Held Roofing 3-day Summit, developed and presented (January 2019)
- Investigating Fraudulent Roofing Claims, PLRB Webinar (February 2020)
- Handling Complex Hail Loss Issues, MRSI Claims Conference (July 2024)

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REPRESENTATIVE ASSIGNMENTS

Storm Damage Assessment

Midwest City High School | Midwest City, OK | Inspected and analyzed the cause of roof system translation downslope and evaluated the lack of structural attachment of the roof diaphragm to the structure. Included notification of the school and AHJ of unsafe condition.

Large TX School District | TX | Led team of experts in assessing hail damage to all roofs and mechanical systems across +70 campuses in major metropolitan area including inspection, infrared, and core testing.

Prologis | TX | Analysis of big-box warehouse with collapsed roof due to a direct tornado hit to determine the extent of necessary repairs and work with the owner's engineers to obtain an agreed scope of restoration.

Shawnee Mall | OK | Following a direct tornado hit, examination of the roofing and all mechanical systems of a 600,000 SF shopping mall to determine the extent of tornado damage to the subject systems and work with vendors to obtain restoration pricing for the same. Included work with the local municipality and property representatives to develop scope of allowable sustainability initiatives.

New Orleans Navy Housing | LA | Led inspection teams of engineers and roofing specialists (as EOR) to assess all roofing of over 700 buildings comprising the patrician housing for JNAS New Orleans following Hurricane Irma. Inspection and analysis included examining new roofing damage and segregating/comparing it to documented historical damages from a recent prior hurricane and advising on necessary additional repairs that needed to be completed. Also worked with construction consultants to determine the probable cost of repairs of the recently-caused damages.

University of Oklahoma | Norman, OK | Provided commercial roofing damage assessment and repair recommendation expertise to roof consulting team evaluating damages to buildings across the 300+ building campus following exposure to severe hail. Included examination of nearly all commercial low-slope and steep-sloped roofing products including historical materials.

Duncan Regional Hospital | OK | Managed and directed a team of engineers and consultants (as EOR) to determine the extent of hail-caused damages to the varying types of commercial roofs, exteriors, and all HVAC units of 33 buildings of a regional hospital network across multiple counties. Worked with roofing material manufacturers to reach agreed scopes of code-permitted repairs. Established accurate dates of loss for observed damages.

Manufacturing Plant | Garland, TX | Inspection and analysis of approximate 500,000 sq. ft. chemical manufacturing and packaging facility to determine the extent of any wind-created damage to the asphalt built-up roofing. Worked with IIBEC consultants in monitoring and analyzing FM 1-52 uplift testing and responding to property representative testing results.

Leprino Foods Manufacturing Facility | Greeley, CO | Evaluation of all roofing and equipment at a larger than 500,000 sq. ft. milk-products manufacturing facility and its waste-water treatment facility. Evaluations included teams of engineering, roofing consultants, mechanical cost consultants, and laboratory roof sample analysis to determine the extent of hail-caused damages and necessary repairs

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to the facility. Included work with roofing manufacturer, plant management, and contractors to complete over 500,000 sq. ft. of elastomeric coating application on modified bitumen roofing.

True Value Distribution Center | Corsicana, TX | Analysis of approximate 750,000 sq. ft. distribution facility to determine the extent of hail-caused damage to the roofing and necessary repairs to the same. Analysis involved infrared moisture survey testing included with our repair recommendations.

Eightfold Path | Dallas, TX | Analysis of high-rise roof of government building to determine the cause of partial roof blow-off and advise on Dallas Existing Building Code restrictions for repair.

San Marcos Baptist Academy | San Marcos, TX | Led team of engineers (as EOR) to evaluate all roof systems and HVAC units of a 50-building private school campus to determine the extent of hail-caused damages and accurate dates of occurrence.

Wise County Courthouse | Decatur, TX | Inspection of Ludowici clay tile roof installed on a historic (and iconic) county courthouse to determine the extent of hail- and wind-caused damage to the roofing related to a recent storm event.

Prosperity Bank Tower | Abilene, TX | Inspected the roofs and exterior of a 10-story tower in downtown Abilene to determine the extent of hail-caused damage to the roofs and exterior. Work also included laser scanning and repair cost estimating.

The Learning Experience | Murphy, TX | Performed site inspections and ASTM C518 lab testing of insulation to determine the effects of hailstone impact on insulation thermal resistance.

Lockheed Martin | Grand Prairie, TX | Evaluate approximately 15 acres of a specialty hybrid built-up roofing product to determine the extent of hail-caused damage and necessary repairs to the system.

Jack & Julie McGinley | Santa Barbara, CA | Evaluated a custom formed clay tile roof system on a \$26 million house to determine the extent of any damage to the roofing system caused by nearby wildfires.

North Bolivar County Consolidated Schools | MS | Evaluation of all roofing systems (county wide) for entire school district and determine the scope of necessary repairs.

Bacone College | Muskogee, OK | Evaluation of all roofing at a 46-building college to determine the extent of wind- and hail-caused damage to the roofing systems. Included steep roof access.

West Texas Boys Ranch | San Angelo, TX | Managed team of engineers, roof consultants, and buildings consultants to evaluate all buildings at a boys' ranch following a direct hit by a tornado to determine the extent of necessary repairs, buildings to salvage, and collapsed buildings to rebuild and the associated costs for the same.

Quality Inn & Suites | Dallas, TX | Provided litigation support for case involving damage to a hotel resulting from a tornado nearly two years prior to our involvement. Designated expert involvement included damage assessment of building cladding, building envelope systems, and HVAC systems through site inspection and review of pre-repairs documentation. Based on that review, necessary damages and their associated repair options were presented and testimony provided.

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Hyatt Centric | New Orleans, LA | Determine the extent of damage to the exterior façade of the historical Hyatt building in the New Orleans French Quarter. Assess water intrusion and reported problems with concrete paver overburden through two second-story mezzanine patio and pool structures following Hurricane passage.

Lineage Logistics | Destrehan, LA | Following hurricane damage to the building envelope, determine the cause and origin of water/moisture that turned to ice within the SPF outer shell of a 40,000 SF freezer. Also analyzed restoration methods and options for repair of the affected SPF.

Construction Defect

Jordan Foster Construction | Southlake, TX | Review of construction plans, specifications, and design coupled with inspection of a luxury condominium building near end of construction to determine the cause of condensation formation on the HVAC refrigeration linesets.

Grand Forks Water Treatment Plant | Grand Forks, ND | Inspection of an EPDM roof of a WWTP under construction to determine the cause of membrane wind uplift failure during less than design level winds prior to construction completion.

Greenmark Apartments | Andrews, TX | Inspection, testing, and analysis of concrete screen wall surrounding an apartment complex to determine if material manufacturing or installation errors had contributed to failure of the screen wall during a windstorm. Published Rule 26 compliant expert report as designated expert in conjunction with my analysis.

Frisco United Methodist Church | Frisco, TX | Provided technical litigation support in determining construction-related problems with exterior curtain walls and fenestration that were resulting in water intrusion and fungal growth. Orchestrated in-situ water spray testing and destructive examinations in the presence of other interested parties. Work also included presentations to the Church Board.

San Juan Diego Catholic Church | Chandler Heights, AZ | Inspected church that experienced water intrusion and interior damage during construction due to improper clay roof tile system installation.

Boulevard 2010, LLC d/b/a Oxford at The Boulevard Apartments v. N-Tex Roof Systems, Inc. and N.E. Construction, LLP | Corinth, TX | Evaluation of recently purchased apartment complex for owner to determine the cause of repeated shingle blow off. Following evaluation, provided service as expert witness for the plaintiff in a lawsuit against the installer and contractor.

Mechanical Systems

Annie's Pharm LLC | OK | Analysis of failed irrigation system for a cannabis grow facility that resulted in loss of all plant stock. Examination included laboratory examination and disassembly of system components and pumps to identify the root cause of failure.

Sentinel Real Estate | TX | Analysis of all (282) HVAC air handling systems to determine deficiencies in installation, manufacturing, and maintenance and the contributions of each factor to interior damages caused by condensation water.

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Hammer Down Oil Field Services | TX and LA | Analysis of natural gas well equipment involved in a well blow-out to inventory and assess damages to equipment. Provided bankruptcy litigation support for equipment damages and inventory analysis claim against well completions company.

The Richards Group Headquarters | Dallas, TX | Inspected and assessed four man-type elevators to determine the extent of water damages sustained compared to service company allegations. Also provided subrogation support for cause and origin analysis of water discharge from newly installed fire suppression system that led to the claimed damages.

Global Technology Enterprises, Inc. v. 4 Way Transport, LLC | Chico, TX | Inspected and inventoried conveyor equipment to determine shipping-related damages and conveyor components lost during shipping. Worked with cost consultants to provide accurate costs of necessary repairs. Provided mechanical engineering support for litigation and testified at trial in federal district court.

The Hyatt Regency Hotel (Reunion Tower) | Dallas, TX | Determined necessary repairs to a man-type elevator system following flooding of multiple elevator shafts. Worked with elevator maintenance personnel to reach agreed scopes and repair cost estimates for each affected elevator.

Lovers Lane United Methodist Church | Dallas, TX | Determined the extent of construction sediment contamination of water systems at a large church facility. Analysis included evaluation of HVAC chiller and boiler systems and plumbing inside the church.

Reliance Worldwide d/b/a Cash Acme | Richardson, TX | Provided forensic mechanical engineering service to determine the cause of a PEX tubing rupture that flooded a surgery center. Performed site inspection and extensive exemplar product testing.

Candlewood Suites | Lawton, OK | Determined cause of accidental sprinkler system activation in a hotel attic. Provided subsequent analysis and technical support for ensuing litigation.

Independent Bank Group, Inc. v. Highland Fire Protection Company and Automatic Sprinkler of Texas, Inc. | Princeton, TX | Provided mechanical engineering support for litigation following accidental sprinkler system operation in a bank building.

Heating Ventilating and Air Conditioning (HVAC) Systems

Griffin Capital REIT | Various Locations in TX | Examined water-based HVAC systems compromised during the February 2021 Texas winter storms to determine the extent of freeze-related damages and advise on necessary repairs.

Sealy Company, Inc. | Shreveport, LA | Examined refrigeration system and components to determine the extent of damage caused by a fire in an approximate 150,000 sq. ft. refrigerated warehouse facility. Worked with mechanical contractor and cost consultants to analyze repair versus replacement costs for the system.

Jupiter Realty | Plano, TX | Assessed nearly 120 roof-top HVAC and mechanical exhaust units to determine the extent of damage and necessary repairs due to hailfall on a specific reported date. Evaluation included analysis of repair feasibility and need with the presence of prior damages to the units, including segregation of the observed damages across the varying ages of units.

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Brandon Oaks Apartments | Arlington, TX | Provided litigation support on code requirements and course-of-construction considerations as they pertained to necessary HVAC condenser work and manipulation during the reroofing process.

Western Bowl, LP | Amarillo, TX | Evaluation of 33 roof-mounted air conditioning units to determine the extent of hail-caused damage and necessary repairs to the coil tube fins.

Iron Wall LLC | San Antonio, TX | Evaluation of a solar water-heating panel system to determine the extent of damage to the system and repair options.

Village at Lakewest | Dallas, TX | Monitored the removal and re-installation of 360 new air conditioning condensers. Worked with project managers on site to recorded detailed charge and technical data for the installation of all replacement units.

Snyder ISD | Snyder, TX | Inspected all HVAC outside units (more than 450) across the district to determine the extent of hail-caused damage to the condenser coil fins and the necessary repairs. Prepared repair recommendations and cost analysis.

Chubb v. Geothermal Air Conditioning Services, LLC | Dallas County, TX | Reviewed case evidence, depositions, and photographs to provide engineering litigation support in matter where inside HVAC air handlers had been installed and resulted in a residential structure fire.

Agriculture & Material Processing Systems

Five Counties Ranch | East, TX | Analysis of 1/2-mile-long rotating crop overhead irrigation system to determine cause of catastrophic failure and partial overturn.

Norvell Crane | Lubbock, TX | Evaluated a concrete central batch plant to determine the extent of damage caused to the plant during transportation and erection and the necessary repairs to the same.

Schwertner Farms, Inc. | Schwertner, TX | Determined the cause of a drag conveyor failure that caused broken drag components to be dispersed throughout the feed processing facility. Analysis included determining necessary repairs to various systems at the feed mill.

Voluntary Purchasing Group | Bonham, TX | Determined the cause of an explosion of a chemical storage tank during the filling process.

Industrial Accidents

Melendez v. SS Seniors, LLC | Sulphur Springs, TX | Provided engineering support in a manhole drowning incident near a construction site following connection of the sanitary sewer. Work included a site inspection, construction contract document review, and litigation support.

Pennington Concrete | Euless, TX | Performed engineering analyses to determine the causes contributing to a forklift turnover that pinned the operator. Work involved multiple site inspections, equipment testing, and subsequent litigation support.

Simmons Foods Feed Mill | Fairland, OK | Worked with facility owners in the days and weeks following an industrial fatality to determine the cause of a material lift failure that had resulted in the

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death of its operator. Analyzed the cause of the failure, disassembled, and preserved the evidence, documented the accident scene, and worked in conjunction with OSHA inspectors. Additional work included presentations to company management.

Moisture Source Evaluations

University of Dallas | Dallas, TX | Determine the cause and origin of excess water and moisture in a library that resulted in mold infestation of library assets.

Waples United Methodist Church | Denison, TX | Analysis including destructive examination to determine the cause of water intrusion through a historic church steeple.

Plano United Methodist Church | Plano, TX | Performed an engineering evaluation to identify specific sources of over 50 water intrusion locations into various buildings at a church complex. Evaluation included multiple site inspections that included in-situ water spray testing and destructive examinations.

Holiday Inn | College Station, TX | Evaluation to determine specific causes of water intrusion into a hotel building envelope and roof throughout a hotel during Hurricane Harvey.

City of Fort Worth – The Fort Worth Zoo | Fort Worth, TX | Evaluation of a primate atrium to determine the source of water trapped in the surrounding roof system and its relation to condensation formation inside the atrium.

RECENT TESTIMONY

- McNabb Family Trust v. Employers Mutual Casualty Company; U.S. District Court for the Middle District of Tennessee Northeastern Division; No. 2:24-cv-00037; Date of deposition: May 7, 2025; Provide expert witness testimony regarding hail and wind damage to the roofing of a commercial building. Halliwell File No.: HEA.005278.00. Reference – Rusty Reviere – Rainey, Kizer, Reviere & Bell PLC – 731-426-8103.
- New Orleans Navy Housing, LLC & Patrician Management, LLC v. Lexington Insurance Company, Et. Al; 25th Judicial District Court for the Parish of Plaquemines – State of Louisiana; No. 67-600. Date of Deposition: March 5, 2025; Provide claim and expert witness support in a claim for wind-caused distress to roofing reportedly resulting from Hurricane Ida. Halliwell File No.: 22-0022 (HEA.001160.MI). Reference: David Heiss - Hinshaw & Culbertson LLP – 312-704-3629
- AZ Wealth Big Springs, LLC v. Third Coast Insurance Company; United States District Court - Northern District of Texas – Abilene Division; Cause No. 1:23-CV-00223-H. Date of Deposition: October 30, 2024; Provide expert witness support for claims of hail-caused damage to roofing, HVAC, and exterior cladding systems of an apartment complex; Halliwell File No.: HEA.006302.00. Reference: Cameron Dernick – Shackelford, McKinley & Norton, LLP – 832-415-1713

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- Poonam Hospitality LLC d/b/a Quality Inn & Suites v. Lexington Insurance Company; United States District Court - Northern District of Texas - Dallas Division; Cause No. 3:21-CV-2209-L. Date of Deposition: July 6, 2022; Provide expert witness support in determining the extent of tornado-caused damages to the roofing, HVAC, and exterior cladding systems of a hotel building; Halliwell File No.: 22-0244. Reference: Brett Wallingford – Zelle LLP – 214-749-4257.
- Boulevard 2010, LLC d/b/a Oxford at The Boulevard Apartments V. N-Tex Roof Systems, Inc. and N.E. Construction, LLP; Court: District Court of Denton County, Texas – 362nd Judicial District; Cause No. 3:16-08576-362. Date of Deposition: February 12, 2018; Provide expert witness support in roofing-related construction defect litigation; Haag File No.: 0116000657; J.S. Held File No.: 18011121. Reference: Craig Bernstein – Law Offices of Craig Bernstein – 214-521-9256
- Global Technology Enterprises, Inc. V. 4 Way Transport, LLC.; United States District Court - Northern District of Texas - Dallas Division; Cause No. 3:16-CV-01601-N. Trial: January 9-10, 2018; Determine the extent of shipping-related damages to and take inventory of conveyor equipment; Haag File No.: 0117000243. Reference: Richard M. Mosher – Thompson, Coe, Cousins & Irons, LLP – 214-871-8200.
- Lady Health & Fitness – Rockwall, Inc. V. Yellow Jacket Plaza, LLC and Tucker’s Mechanical, Inc.; Court: 95th Judicial District, Cause No. DC-12-13786, Dallas County, Texas. Date of Deposition: May 8, 2017; Determine the source(s) of leaks into the building; Haag File No.: 0116000777. Reference: J. David Apple – Apple & Fink, LLP – 972-315-1900.