

TFM

Civil Engineers
Traffic Engineers
Structural Engineers
Land Surveyors
Landscape Architects
Scientists



Voted BEST NH
Engineering Firm
3 Years Running!!!

CONTACT:

- Robert Duval, PE, LEED AP President / Chief Engineer
- Dylan Cruess Chief Operating Officer
- Paul Sbacchi, PE Chief Structural Engineer
- Anne Cruess, PLA, ASLA Chief Landscape Architect
- James O'Neil, LLS Chief of Survey
- **Jeffrey Kevan**Civil Project Supervisor
- Robert Cruess, PE
 Chairman
- J. Corey Colwell, LLS MSC Division Manager
- John Lorden, PE MSC Senior Project Manager

A Message From Our President

TFM News

MSC Engineers is now a part of TFMoran, offering more value in the Seacoast region.

TFMoran is pleased to announce that MSC Engineers, one of the leading engineering firms in the New Hampshire MSC Engineers, one of the leading engineering firms in the New Hampshire May in Portsmouth, NH. The staff and

This merger expands MSC's traditional

survey and civil engineering services

by adding structural engineering, land-

scape architecture, wetlands delineation,

traffic engineering, and construction

Seacoast region is now a division of TFMoran, Inc. With the addition of MSC, an established engineering firm with a long history and solid reputation, we can offer more value and convenience to our clients not only in the Seacoast area, but throughout the region.

pshire Way in Portsmouth, NH. The staff and phone number will also remain unchanged.

MSC

A division of **TFMoran, Inc.**

In addition to expanding our presence in the Seacoast area, our acquisition of MSC's experienced and qualified staff makes an excellent addition to our growing Company.

Please visit MSC's new website for a look at their work in the seacoast region. www.mscengineers.com

Together, we are flooking forward to a great 2015!





inspection capabilities.

J. Corey Colwell, LLS former president of MSC, serves as the Division Manager, and will oversee the Portsmouth office. Corey has over 30 years experience in surveying and civil engineering.



John Lorden, PE serves as Sr. Project Manager for the MSC civil department. John has over 15 years experience in the design and permitting of public and private development projects.



MSC Staff ▶



IRINA DONSKAIA



TODD EMERSON
FIELD CREW CHIEF



CORAL JONES
OFFICE MANAGER



STEVEN OLES, LLS SURVEY PROJECT MANAGER



SUSAN RAMSDELL
RECEPTIONIST



COLIN SURVEY



ESSICA WINSTON



PROJECTS in Progress

- Maplehurst Bakeries, Manchester, NH: TFM is providing survey, civil/site design, structural design, permitting and construction support for an addition and associated parking and truck access on Pepsi Road.
- Radisson Hotel, Manchester, NH: TFM Structural Engineers are working with BMA Architectural Group to provide design services for the interior and exterior renovations of the 12th floor, including a façade redesign.
- **GE Aviation, Hooksett, NH:** TFM works with GZA Geoenvironmental to provide civil/site engineering for a 55,000sf plant expansion on Industrial Park Drive. TFM is also working with the design-builder Brasfield & Gorrie of Birmingham, Alabama in providing structural design services.
- Russell Elementary School, Rumney, NH: TFM is providing structural engineering services for alterations and additions to this single story elementary school building. The project architect is Stewart Associates Architects.
- River Park, Lebanon, NH: TFM is providing survey, revised subdivision plans and roadway plans, revised site plans and permitting services for a proposed mixed-use development.
- Calamar Enterprises Mixed-use Development, Bedford, NH: TFM is providing civil/site engineering for a 3-story, 116 apartment unit independent senior living facility, along with three 1-story retail buildings on South River Road and Technology Drive.
- Derryfield School, Manchester, NH: TFM Traffic Engineers provided analysis of the intersection of River Road and Bicentennial Drive to evaluate vehicles and pedestrians safety.
- Milton Fire Station, Milton, NH: TFM is providing structural design services to Cowan Goudreau Architects for a new Fire Station.
- Davis Finch and Jean Topping Lot Line Adjustment/Conservation Easement, East Kingston, NH: The MSC division recently received approval to adjust boundary lines in an effort to protect 131 acres of land in East Kingston. Working with the Southeast Land Trust, the land will be protected in perpetuity with a conservation easement.
- Liberty Utilities, Nashua, NH: TFM is providing a route survey of approximately 3 miles of local roads for replacement of natural gas lines.
- Liberty Utilities, Bedford, NH: TFM is providing a route survey of approximately 1.5 miles of local roads for installation of natural gas lines.
- Town of Amherst, NH Road Reconstruction: TFM surveyors are performing road detail and limited right-of-way surveys for engineering design by TFM of Merrimack, Stearns and Standish Roads.

Redevelopment of a Historic Site ...

TFM in the news . . .



A Whole Foods Market is anchoring a mixed-use development on the site of the former Wayfarer Inn on South River Road in Bedford, NH. Along with the new 40,000sf



food store are two restaurants, an 8,800 sf retail building, a bank, a fitness center and 73 apartment units. The historic site occupies 16.2 acres across Bowman Brook between South River Road and the FE Everett Turnpike.

The site was originally developed in 1744 by Colonel John Goffe, whose family constructed two stone dams and a mill pond, where they operated a gristmill and sawmill for over 100 years. Due to its long history and unique setting, the project imposed numerous challenges. TFM civil engineers and landscape architects designed a plan that, in addition to providing access and parking for each use within the complex, also addressed the environmental quality of Bowman Brook, traffic safety, preservation of the historic mill, structural stability of the bridges and dams, and created accessible access to a public walking trail all around the brook and mill pond.

PROCON Inc. is serving as Architect and Construction Manager for the mixed-use project. Construction is now underway and Whole Foods Market anticipates opening in late 2015.



Ashley
FURNITURE
Ashbrook
FURNITURE

Coming Soon....

Architectural renderings by Schopf Design Associate

A New Furniture Retail Showroom in Manchester, NH

The new 2-story 34,543sf Ashley Furniture & Ashbrook Furniture showroom is now under construction and expects to be open by the Fall. The new retail store will

be located off South Willow Street on Driving Park Road. Ashbrook Furniture will showcase a wide selection of living room, dining room, bedroom, and home office furniture made by Ashley Furniture, which is the largest furniture manufacturer in the world, according to the company's website.

TFMoran provided civil/site engineering, structural engineering, land surveying, permitting and landscape architecture for the project. Architectural design was provided by Landry Architects of Portsmouth, NH and the General Contractor is TRB Development Group, Inc. of Londonderry, NH.



TFMoran Named "Best of Business" in Engineering Category

TFMoran staff and their families celebrated at the New Hampshire Business Review's

BOB Awards event on Thursday, March 5th in Concord at the Grappone Conference Center. TFM was named "Best of Business" in the Engineering category for a third consecutive year. NHBR's BOB Awards reader's survey honors the "best of business"

"With 2,700 ballots cast for the 2015 Awards, the BOBs continue to be considered a standard of excellence in New Hampshire," said Jeff Feingold, editor of NHBR.

"It is a great honor that we have won three years in a row," says Robert Duval, president of TFMoran. "This clearly shows that our civil, structural and traffic engineers, surveyors and landscape architects are focused on client service and delivering the best engineering solutions possible. And, with our recent acquisition of MSC Civil Engineers & Land Surveyors in Portsmouth, we can expand our award winning professional services to the seacoast region."





Prologis, Dacon Corporation and **Continental Paving** are finishing up construction of a new 614,000sf high-bay **UPS** logistics center at 52 Pettengill Road adjacent to the Manchester-Boston Regional Airport. UPS will be facilitating the distribution of **Pratt & Whitney** aircraft parts.

The building structure will cover an incredible *14 acres* of office, assembly, storage, and distribution area at a clear height of 32 feet serviced by 56 tail board docks. The office space will consist of 30,000sf on two levels. From the initial concept TFMoran worked closely with Town and State officials to secure all necessary approvals for this major project within 60 days, including the 45-acre site design, permitting of wetland fills, and design of several thousand feet of new roadway and utilities to access the site. Working closely with **Jay Steel** of Amherst, NH, TFM's structural engineers provided structural design on a fast-track basis to keep this project on schedule.

The site includes 400 parking spaces for employees, as well as 100 truck/trailer storage capacity. This spring the landscape design created by TFM's Landscape Architects will enhance the site with over 365 trees. A June opening is expected.



Structural Engineers

RESIDENTIAL FOCUS



Joaquín Denoya, PE is a Senior Structural Engineer focusing in structural design, analysis, and construction administration of high-end single family and multi-family residential projects throughout New England. Joaquín is a licensed Professional Engineer in the states of NH. MA and CT

with over 10 years experience. He has a Masters of Engineering degree in Civil Engineering from Rensselaer Polytechnic Institute.

Joaquín's residential structural design projects include:



Private Single-Family Residence - Meredith, NH A 10,000sf, two-story residence on Lake Winnipesaukee. Framing consisted of engineered wood lumber and steel members to help create an open floor layout. The project architect was Stewart Associates Architects.

Private Multi-Family Residence - Boston Additions and alterations to a historic, 26,000 sf, three-story brownstone originally built in 1872 (known as the Ames-Webster mansion). The instal-



lation of large steel framing members due to the removal of load bearing brick masonry walls has allowed the basement space to be converted to a 9-car parking garage. Pile supported foundations at the new additions are anticipated to be installed this summer. The project architect is **Hamady Architects**.



Multi-Family Apartment Building - Boston, MA

Now under construction, TFM Structural Engineers designed this four-story addition to a two-story, concrete structure located on Commonwealth Avenue. The design involved upgrading the existing

structure for new gravity and lateral loads and designing a unique structural system for transferring loads from the upper story addition to the lower story existing building. The project architect is **Neshamkin French Architects** of Boston, MA.

Contact Joaquín at: jdenoya@tfmoran.com

TFM Seacoast Area Projects Under Construction...



Dover Honda ~ Dover, NH

TFMoran provided land surveying, civil/site engineering, structural engineering, permitting and landscape design services for redevelopment of this new 46,483sf building and associated parking areas. A key element in this design was to produce a LEED certified development. The project architect is Warrenstreet Architects of Concord and the general contractor is Hutter Construction of New Ipswich, NH.





Martini Northern is constructing a new 13,000sf one-story child care facility. The structure was designed with wood framed walls and prefabricated wood trusses. Soil conditions were classified as a Site Class "E", increasing the seismic lateral design forces on the building which was handled with an enhanced wall sheathing nailing pattern. TFM Structural Engineers provided structural design services for the project architect DeStefano Architects of Portsmouth, NH.



Mast Landing Senior Congregate Care

~ at Dover Fields, Dover, NH
New England Corporation

Housing Initiatives of New England Corporation will soon have a new Senior Congregate Care facility in Dover. The 4-story residence will provide 58 affordable apartment units and will be a part of Dover Fields, a 55 acre mixed-use development located between Route 108 and Mast Road. TFM provided civil/site and traffic engineering, permitting, land surveying and landscape architectural services.

The MSC Division of TFMoran Featured Projects..





Atlantic Orthopaedics & Sports Medicine

~ 1900 Lafayette Road, Portsmouth, NH

The MSC division of TFMoran provided survey, civil/site engineering and permitting for two 20,000sf medical office buildings on Lafayette Road (US Route 1). Atlantic Orthopaedics &

Sports Medicine, will occupy one building along with an MRI coach and future MRI addition. The design-builder is **HCP Architects and BBL Construction Services** of Albany, NY. Another focus of the project was related to the connection of a service road located within the Lafayette West Industrial Park that will provide additional access to West Road and nearby businesses.



COMMUNITY *Events*



Dylan Cruess, Nick Golon, Tucker McCarthy, Chris Rice

NH Science and Engineering Expo

TFMoran employees Dylan Cruess, Nick Golon, Tucker McCarthy and Chris Rice participated as judges in the 2015 NH Science and Engineering Expo (NHSEE). The Expo, which took place on Thursday, March 19th, featured some of the top science, math, biology, and engineering high school students from around New Hampshire. The Expo has grown in the last several years and in 2015 the Expo became ISEF Affiliated, which sets a national standard for judging and allows the winner of the New Hampshire Expo to attend the International and Engineering in Pittsburg, PA. This is the second year that TF-Moran employees have volunteered to judge at the Expo. TFMoran is proud to promote science and engineering programs at the high school level.

Goodwill Industries and Retail Plaza



Goodwill Industries of Northern New England continues to strengthen its presence in surrounding communities with the recent opening of a new store on High Street. The new location of the Goodwill Store and Donation Center was the culmination of years of planning. The new location required permitting with local and state agencies while coordinating construction on High Street. The MSC division of TFMoran provided survey, permitting and civil/site design service for the 15,500sf Goodwill building and 20,000sf retail plaza to meet an aggressive construction deadline. Whitcher Builders provided the construction of the retail



buildings. A new COAST bus stop with shelter was part of the project providing additional accessibility.



Robert Duval, Robert Tourigny, Dylan Cruess

TFMoran makes contribution to NeighborWorks® Southern New Hampshire

TFMoran principals recently presented a \$5,000 donation to Robert Tourigny, Executive Director of NeighborWorks® Southern New Hampshire. The company's contribution will help support the affordable housing and community development needs in New Hampshire's Southern region, including the Cities of Manchester and Nashua.

For more information, please visit: www.nwsnh.org

Organization Involvement

NH Chapter of the American Society of Civil Engineers



Touring the Panama Canal Engineering project is Nick Golon

Nick Golon, PE, Senior Project Manager attended the Global Engineering Conference in Panama City, Panama in October 2014. Nick represented the New Hampshire Chapter of the American Society of Civil Engineers (NH-ASCE) at the conference which focused on the new construction and expansion taking place at the Panama Canal.

Nick serves on the NH-ASCE Board of Directors as Secretary. As part of his trip to Panama, he wrote an article for the NH-ASCE newsletter about his experience. Visit www.tfmoran.com and search "Panama" if you would like to learn more.

NH Chapter of the American Society of Landscape Architects - GSLA



Anne Cruess, NH Senator Kelly Ayotte, GSLA President Eric Buck Granite State Landscape Architects (GSLA) is the New Hampshire Chapter of the American Society of Landscape Architects. TFM's Chief Landscape Architect, Anne Cruess, PLA is a GSLA Trustee who represented the state for a third consecutive year as an advocate

the state for a third consecutive year as an advocate. The 2015 ASLA Conference was held in April at the ASLA national headquarters in Washington, DC.



The First Annual GSLA Project Showcase was on display at The Bridges House in Concord during the GSLA Annual Dinner in April. The showcase features boards from members representing the wide breadth of work New

Hampshire Landscape Architects have completed. Categories include commercial, institutional, residential, planning, healthcare facilities and more. The exhibit begins in central New Hampshire and then travels around the state for the summer.

For the show schedule visit www.gsla-online.com

Educational Institutions...



Phillips Exeter Academy ~ Webster Hall Renovation Exeter, New Hampshire

TFM Structural Engineers provided structural design services for a two phased renovation to a 4-story 35,000sf dormitory on campus. The brick building was built in 1912 and underwent both interior and exterior renovations. **Cutler Associates** was the project design-builder. ■

Derryfield SchoolAthletic Field Parking Expansion Going Green

~ Manchester, New Hampshire

TFM is providing civil/site engineering services to the Derryfield School for the construction of a parking expansion adjacent to the campus athletic field. The project calls for a 39 space parking area utilizing grass pavers to create a permeable surface for vehicles to park on while maintaining the green aesthetic appeal of the existing school's grounds.





ing and landscape architecture for this 47,000sf, three-story, 150-bed student housing facility located on the lower end of campus. The college has created an innovative living-learning community, integrating academic and residential life by including "neighborhood suites,"

common areas and additional study space. Other members of the team included Lavallee Brensinger Architects and Eckman Construction.

Medical, Religious and Municipal Facilities...



Huggins Hospital ~ Alton Family Practice

Currently under construction, TFM is providing structural engineering services for a new 5,500sf one-story Huggins Hospital medical building on New Durham Road in Alton, NH. Huggins Hospital is a non-profit community hospital located in Wolfeboro servicing the Lakes Region. The new facility will house an on-site laboratory, medical imaging, orthopedic services and patient space. The structure consists of wood framed walls, prefabricated clear spanning wood trusses, and steel covered entry driveway. The project architect is Stewart Associates Architects of Laconia and the construction manager is NCM Management of Gilford, NH.

Warrenstreet Architects designed a new 12,990sf Catholic Church located just off NH Route 101 on Church Street. The church will accommodate more than 300 in the sanctuary and provide administrative





Construction photo above taken in March

offices and a community meeting room. Milestone Engineering and Construction, of Concord, is the construction manager. TFM Structural Engineers provided structural design services. The construction is expected to be completed by the Fall 2015.





TFM provided survey, civil/site engineering,

Shoreland permitting and structural design for an addition to the Town's Village Station located near the Contoocook River. The existing roof and columns were evaluated to verify that a second story could be added to the existing one-story brick structure. The new second story will provide a dormitory, a



kitchen, and office space. A new apparatus bay was added to accommodate a new ladder truck. PortOne Architects of Portsmouth, NH is the project architect and Bonnette Page & Stone of Laconia is the construction manager. Construction is expected to be completed by late spring 2015.

WORKPLACE SAFETY



TFM Surveyors/Engineers OSHA Certified

HAZWOPER Because of safety and health hazards related to Hazardous Waste Operations and Emergency Response, TFM has certified staff to handle hazardous substances safely and effectively. The HAZWOPER training covers all employers performing the following three general categories of work operations:

- 1. Hazardous waste site cleanup operations. such as SUPERFUND cleanup
- 2. Operations involving hazardous waste that are conducted at treatment, storage, and disposal (TSD) facilities, such as landfills that accept hazardous waste
- 3. Emergency response operations involving hazardous substance releases, such as a chemical spill at a manufacturing plant

ARC FLASH An arc flash is a phenomenon where electric current travels through the air from one conductor to another, or to ground. When a person is in close proximity to arc flash, serious injury and even death can occur. TFM has Arc Flash trained staff to work safely on or near energized equipment.

TFM hosts AGC of NH's Agency Luncheon Series with NHDES

TFMoran was the March host sponsor for the Associated General Contractors of NH's Agency Luncheon Series. NH Department of Environmental Services was the guest agency and the topics discussed included wetlands rules updates, redevelopment rules, and legislative topics. TFM's president Robert Duval, PE started the meeting by discussing the need for engineers and contractors to work closely with NHDES staff. TFM's Senior Project Manager, Dan Blais, CPESC, CESSWI discussed his experiences with NHDES on storm water monitoring and inspections projects such as I-93 widening reconstruction projects at Exit 2 and Exit 3 for George R. Cairns & Sons and Weaver Bros.





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Landscape Architects
ran, Inc. Scientists



TFMoran, Inc., 48 Constitution Drive, Bedford, NH 03110





TFMoran provided survey, civil/site design, permitting, landscape architecture for this attractive one-story, 5,100sf medical office building on the corner of NH Route 101 and Nashua Road. ConvenientMD is a full-service urgent care center, not affiliated with a hospital. The Bedford location is one of eight in southern New Hampshire. The project architect was **Dennis Mires The Architects** and **Maple Leaf Construction** was the general contractor.

Christopher Heights ~ Assisted Living Northampton, MA Architectural rendering by SMOOK Architecture

Now under construction, Christopher Heights new assisted living facility will include 43 apartments for low to moderate income seniors. **Cutler Associates** coordinated the building project through detailed scope control and design-build delivery. **TFM Structural Engineers** provided structural design services. The project will meet *LEED for Homes* Silver for energy efficiency.

IFM Staff News



Bryan Levesque, PE was recently hired to serve as a Construction Inspector. Mr. Levesque is a Professional Engineer in the states of New Hampshire and Maine, and a Certified Professional in Sediment and Erosion Control. His skills include storm water pollution prevention plans, ge-

otechnical evaluation, design and construction support services, and HAZWOPER training. Mr. Levesque's education includes a Bachelor of Science degree in Civil Engineering from New England College and graduate studies in Geotechnical Engineering at South Dakota School of Mines & Technology.



Alexander Camm serves as a Survey Technician in the company's land surveying department. Mr. Camm has over nine years of land surveying experience including boundary, topographical, construction, and ALTA/ACSM surveys. His skills include 3D modeling, conventional and robotic

total stations, GPS data collection, HAZWOPER, and Arc Flash (electrical safety) training.

TFM/MSC Staff Directory is now on-line. If you are working on a project and would like to put a face to a name, you can go to **www.tfmoran.com/about/staff-directory**. The directory can also be filtered by name, discipline and office location.

TFMoran, Inc. 48 Constitution Drive, Bedford, New Hampshire 03110 MSC a division of TFMoran, Inc. 170 Commerce Way-Ste 102, Portsmouth, NH 03801



Dylan Cruess TFM's Chief Operating Officer has recently joined the **Board of Directors for the Greater Manchester Chamber of Commerce.** The member-focused organization supports business growth, professional development and networking.



Matthew Mullen, EIT has joined our growing team of Structural Engineers. Matt has a Bachelor of Science degree in Civil Engineering with a minor in Mathematics from Western Michigan University's

Parkview College of Engineering and Applied Sciences. Matt recently spent a year in the AmeriCorps as a Construction Site Coordinator for Habitat for Humanity in Tacoma, WA constructing 14 new homes. We welcome Matt to New Hampshire and look forward to his contributions in the structural department.



Celia Belletete will be joining the engineering department for a second consecutive year as a **summer intern**. She will be a Senior at UNH pursuing a Bachelor of Science degree in Civil Engineering. *Welcome back Celia!*

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