



Uptown Phase II

MDOT Bay City TSC

Bay City, MI



Following our engineering award-winning Phase I of the Bay City Uptown project, we aimed to deliver the same service a second time around. The popularity and growth that resulted from the Phase I efforts has led us to the next step, Phase II, which will fill in the vacant riverfront that currently connects to Bay City's downtown.

Providing this connection will complement the previous work on Uptown, as well as enhance the community ambiance and quality. ROWE is providing the surveying, design, and construction engineering for the entire Uptown Phase II project.

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Durand Streets Project

Spanning across five streets, there will be 1.72 miles of road rehabilitation and 1.63 miles of water main replacement. Completion of this project is set for July 2022.



M-65 Cross Culverts

This project includes the removal and replacement of twelve existing roadway cross culverts that were damaged in the May 2020 Bay Region flood.



Wolverine Campground Improvements

ROWE played an important role re-designing the rustic 37 campsites to include water and electrical services and to accommodate larger camping trailers.



PHASE II

PHASE I



Uptown Phase II
MDOT Bay City TSC



Bay City Uptown Phase II

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This phase focuses on an expansion to the north of the original project. While the original Uptown comprised of approximately 40 acres

Project Details

- | | |
|---|--|
|  Comprised of 16 Acres |  730 ft. of Border Shoreline |
|  Reconstruction of 5 City Streets |  New Sanitary Sewer |
|  New Public Watermain |  Street Lighting and Landscaping |

of mixed-use office, residential, and public space, Phase II is approximately 16 acres of similar use, but predominantly residential. This phase focuses on the construction and reconstruction of five public city streets and mass grading the private site development areas.

Portions of the streets and site development areas were filled above the Saginaw River 100-year floodplain. The streets were improved with new public watermain, sanitary sewer, storm sewer, lighting, and streetscaping. The city's Riverwalk was raised and reconstructed along the Saginaw River, providing a new enjoyable Riverwalk feature for the community. Not only this, but 430 feet of new river shoreline sheet piling as well as 300 feet of boulder shoreline protection was also installed along the Riverwalk. This public infrastructure portion of the project amounted to \$9 million.

Because jurisdictional agency approval was

needed, Phase II faced a few more challenges than Phase I. In addition to the same approvals from Phase I, (agencies such as Army Corps of Engineers, EGLE, and the city departments), Phase II required MDOT and Consumer Energy's input and approval. Coordinating with MDOT Bay City TSC, we were able to work through a variety of options for the M-25 street connections that were presented to gain their approval and permit. Additionally, Consumers Energy has an underground high voltage transmission line easement that bisected Phase II property. The infrastructure and building layout were designed to work around the easement. Our design left Consumers Energy able to maintain their line as well as maximize the development's buildable area.

We are proud of our success in all phases of the Uptown project thus far and look forward to providing service to Bay City for many years to come!



Aerial view of Uptown Phase II construction



Durand Streets Project

Beginning construction in July 2021, ROWE provided civil engineering, surveying, construction engineering, assistance with loan applications, preparation of bid packages, construction testing, and general project oversight for the City of Durand. This project was funded by a combination of a USDA low interest rate

loan and street millage funds. ROWE assisted the city with preparation of probable cost opinions, completion of the loan application package, assemblance of data, analysis of alternative work, and the closing of the loan.

Spanning across six streets, we worked on 1.72 miles of road rehabilitation and 1.63 miles of water main replacement. The street portion included pavement removal, storm

Project Details



Spanning across 6 Streets



Sidewalk and Driveway Repairs



1.72 Miles of Road Rehabilitation



Road Widening



1.63 Miles of Water Main



Curb and Gutter Repairs

sewer repairs, curb and gutter repairs, sidewalk repairs, road widening, driveway repairs, and HMA pavement and restoration. The water main portion included installation of 8" and 12" diameter water main including appurtenances, water main abandonment, pavement repairs, curb and gutter repairs, sidewalk repairs, and turf establishment.

widening streets, and providing curb and gutter on streets that had not previously had it.

We look forward to future projects with the City of Durand.

Differentiating itself from other projects, we worked with the city to determine the best treatment to meet the available budget. It combined upgrades to the existing water distribution system from 4" water main to 8" water main, rehabilitation of 25-year-old road sections, and elimination of lead water services.

We came across some challenges while performing the first stages of work including working with unknown subgrade conditions, water service locations, permitting through various review agencies, grading while



Vinewood Street Resurfacing



Dort Highway Extension

Expected to reach completion before the summer of 2022, ROWE has led the engineering for the Dort Highway Extension project, providing surveying and design engineering with the assistance of various subcontractors. Originally, funding was a significant hold-up until the state's budget allowed additional infrastructure funding.



Dort Highway Extension Roundabout

Local legislators and stakeholders advocated for the increased revenue to move this project forward.

Extending Dort Highway from its existing south terminus at the I-75 interchange, the project was split into two phases—North and South. The North phase was constructed first and focused on the I-75 interchange south to Cook Road. To improve traffic flow and safety, the North phase involved reconstructing all four I-75 on and off ramps to roundabouts, along with the intersection with Cook Road. The South phase is currently under construction and will continue from Cook Road south to Baldwin Road, approximately one mile.

Due to the immense growth in southern Grand Blanc Township, this project was

necessary to improve the daily traffic flow. This is the first new county primary road constructed across virgin ground in decades. It was formalized in 2011 with its inclusion in Genesee County's regional "Freight and Connectivity Study".

With many challenges to overcome, a two-year environmental impact assessment process was necessary before beginning design. We had to consider the impact of pushing a new road and right-of-way across an urban area. The proposed road alignment crossed a Consumers Energy Transmission right-of-way, meaning the road was designed to thread between the existing high-voltage towers. Not only this, but there were also various MDOT coordination efforts regarding the reconstruction of the I-75 ramps, along with wetland concerns. Wetlands were crossed with the new road, making construction of large segmental block retaining walls necessary to provide minimal footprint

impact on the wetlands.

With the new South phase being completed before the summer of 2022, the community can expect further improvements to their daily lives. This will include a new multi-use pathway and trail head along Dort Highway from Baldwin Road to Cook Road with a connection to Ascension Genesys' railway system.



Construction expected to be completed summer of 2022



M-65 Cross Culverts

In response to the May 2020 Bay Region flood damage, ROWE is performing as-needed construction engineering and inspection services for the M-65 Twining project.

This project includes the removal and replacement of twelve existing roadway

cross culverts that were damaged in the flood. Mike Roberts is assisting the MDOT project manager with project deliverables, along with Don Gunderman and our sub SSI performing field inspection duties.

Our team has been involved in every emergency project related to the 2020 Bay Region flood, including both design and



construction related assistance. To lend a helping hand, we also provided immediate drone assistance at no charge after the flooding to help expedite clean-up and repair efforts. The M-65 Twining project is the last in a series of emergency projects for the region. It uniquely includes a large cast-in-place box culvert, which is very rarely used in Michigan due to the common use of pre-cast concrete box culverts.

We are proud of our team for their efforts to support the communities impacted by the flooding. At ROWE, we stand by the idea that people are our best asset, and we are willing to help in any way we can when these emergencies arise.

Johnson Creek



Aerial view of completed culvert



Wolverine Campground Improvements

Providing survey and site design, ROWE has played an important role in improving the 37 rustic campsites within the Wolverine Campground in Genesee County, MI. The campsites were re-designed to include water and electrical services and to accommodate larger camping trailers.

These renovations have helped meet the high demand for outdoor recreation that came as a result of the COVID pandemic. Use of the campground increased by 37 percent with 10,689 nights reserved in 2020 and 14,659 nights reserved in 2021.

The sites were located along the Holloway Reservoir, providing waterfront sites within the campground that were underutilized prior to this project. As a compact site, it required precise layout to maximize the number of lots while also providing access for the larger trailers. The project also included a vehicular drive connection that improved circulation within the campground.

The future campground master plan includes a mountain bike course that features ten miles of trail.



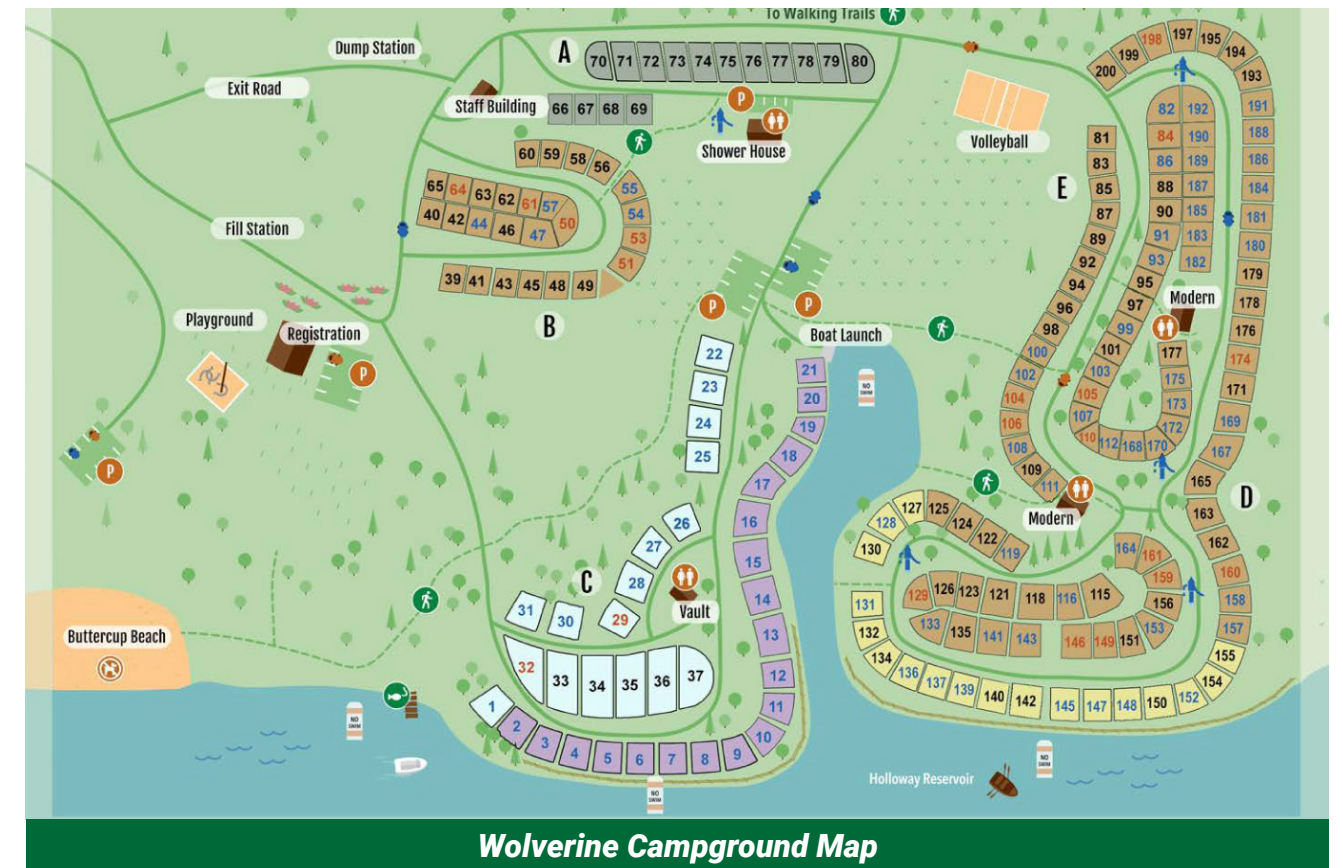
Holloway Reservoir

We anticipate the increased use of the campground to continue to grow in 2022.

ROWE worked with H2A Architects on a design to renovate or replace restrooms and shower facilities and add a new 50 site camping area with a new restroom and shower house. These will be welcomed improvements to the site and we look forward to seeing the project progress.



“Use of the campground increased by 37 percent with 10,689 nights reserved in 2020 and 14,659 nights reserved in 2021.”



Wolverine Campground Map



US-131 Road Reconstruction

Beginning in May of 2021, ROWE performed full construction engineering services for the MDOT US-131 roadway reconstruction project near Fife Lake, Michigan. Consisting of roadway widening, HMA micro cold milling, HMA crack sealing, and two course HMA overlay, this project made use of what

is referred to in Michigan as the “Texas Underlay” due to its Texas origins. The existing HMA pavement surface is first micro milled to remove oxidized, deteriorated HMA wearing course. Next, all existing cracks are sealed, and a chip seal is placed over the entire pavement surface to limit the amount of reflective cracking that makes it through to the top of the pavement structure. Upon cure of the chip seal, two courses of HMA are placed over it to provide additional pavement depth and a wearing surface for traffic.

The reconstruction also included tree removal, driveway reconstructions, drainage upgrades, and guardrail replacements and additions. This project was difficult on all fronts and presented many challenges to our staff over the course of the summer,



Crews installing guardrails

all of which ROWE handled with courtesy and professionalism.

As our first MDOT construction project in the Traverse City area, we are proud of the service we provided and of our field staff that took ownership of the project with little intervention from the project manager. Our first-class inspection services were performed with limited staffing, and despite the challenges faced, we were able to deliver a great project and we look forward to future endeavors within the Traverse City area.

Reconstruction also included tree removal 



Smooth HMA Pavement on a hot summer day



M-59 Hall Road Reconstruction

ROWE has been working on the M-59 Hall Road Reconstruction as a subconsultant to Fishbeck to provide engineering assistance and lead inspection. Funded through Rebuilding Michigan funds, this MDOT project includes 5.05 miles of HMA reconstruction, concrete curb, gutter, and sidewalk ramps, drainage improvements,

permanent signing upgrades, traffic signal modernizations, guardrail installations, pavement markings, bridge rehabilitation including epoxy overlay, concrete patching, partial painting, and slope paving on seven structures on M-59 from Romeo Plank Road to I-94 in Macomb County.

Set to be substantially complete in the fall of 2022, this reconstruction is on one of Michigan's busiest non-freeway roadways that handles more than 63,000 vehicles per day. The elevated traffic volumes require significant planning and coordination to maintain access to the numerous businesses along the corridor.

We are happy to be partnered with Fishbeck on this significant project and look forward to the end results.



Crews working on new drainage



DISSOLVING AIR-LAND SURVEYS



Air Land Surveys (ALS) has a major change to share! All aerial services will now be provided under the ROWE name, along with our Mobile LiDAR, Surveying, Civil Engineering, Construction, and Planning Services. Providing quality Aerial Imagery, Airborne LiDAR, Photogrammetric Mapping, and Digital Orthophotography services, ROWE will maintain the ALS

reputation of quality services for our clients. Founded in 1967, ALS was purchased by ROWE in 2002, meaning this change is nearly 20 years in the making. This is an exciting change for ROWE and we look forward to maintaining our personal relationships with you, our valued clients.



Wenona Avenue Reconstruction - Bay City

Completed in September 2021, ROWE provided full construction engineering, inspection, and survey staking for Phase 1 of the Wenona Avenue Reconstruction in Bay City, MI, between Ionia Street and Fisher Street. The project was part of MDOT's local agency program and was a 0.41-mile roadway reconstruction, with a new hot mix asphalt roadway and all new

concrete curb, sidewalk, ADA ramps, and driveways. The project included new water main, sanitary leads, and additional storm sewers to assist with drainage for the corridor. During the installation of these underground utilities, we encountered wooden water main that needed to be removed. These wooden water pipes were first used in Bay City in 1873 and may have been made locally, right in Bay City. Being an old and rare feature, this was definitely a unique aspect of the underground work.

The project concluded with turf establishment, new roadway signs, and permanent pavement markings. This is the beginning phase of a multi-year local road reconstruction of Wenona Ave between Fisher Street and North Union Street.



Crews pouring new sidewalks



OSCODA, MI ROWE FIELD OFFICE

212 N. State Street, Oscoda, MI 48750

To support ongoing work as Township Engineer, ROWE has opened a field office in Oscoda, MI. We are currently providing construction observation and staking for a \$1.6 million water main distribution system to provide safe drinking water to the residents and businesses affected by the PFAS ground water contamination. This is the second in a four-year phased program to provide these services to the Township.

We were recently awarded a sanitary pump station and collection system project, where we will provide construction observation and staking services. Dean Oparka, Doug Scott, Sam Kalakay, Ryan Bair, and Zoe Wahr, with oversight from Dave Richmond and Rick Freeman, have

completed the design and construction documentation preparation for these projects. Steve Ludwick and Cole Sorenson, along with our survey crews from Grayling, have been working on the construction portion of these projects.

Several additional projects are in the works, such as the Iron Belle Trail Phase 3 project that is nearing advertising and bidding and the Ratliff Park Handicap Kayak Launch project. Survey and study projects have been progressing as well.

We are pleased to deliver services to the Oscoda area while offering our staff an office with lodging options upstairs.



Freeland & Sasse Roundabout

Midland County's first ever compact roundabout has been completed and it's ROWE's first compact design as well! The roundabout is featured at the intersection of Freeland and Sasse Roads and is now open to traffic. This high-risk intersection received MDOT's High Risk Rural Road (HRRR) safety funding due to previous frequency of



Roundabout Aerial View

injuries and fatalities at the intersection. The rural fatality and injury rate is significantly higher than in urban settings, which led to this funding opportunity that focuses solely on rural roads with a fatal or incapacitating injury crash rate that is above statewide average or cases that are likely to experience an increase in traffic that will lead to higher crash rates. With proper funding, roundabouts such as this one are able to prevent future crashes and fatalities across the county. Studies show that roundabouts provide a 90 percent reduction in fatal crashes and a 75 percent reduction in injury crashes, all while also being able to handle heavier traffic flows. We look forward to seeing the effect this roundabout will have on the community, promoting safer driving and faster flow of traffic.



US-12 & M-50 Culvert Replacement

ROWE provided construction inspection, testing, staking, and office technician services for the Jackson TSC's culvert replacement project at US-12 and M-50.

Two culverts were replaced over the Neering Drain. Due to a utility conflict, this project was delayed. In addition to the utility delay, significant rainfall led to increased runoff into the drain, which complicated bypass pumping to keep the excavation dry.

Completed in November of 2021, the project consisted of removal of the existing culverts, 12' x 5' and 12' x 7' concrete pre-cast culvert replacements including steel sheet piling, cofferdams, drainage and sewer improvements, new concrete curb and gutter, hot mix asphalt and concrete roadway pavement reconstruction, along

with new pavement reconstruction, along with new signing, guardrail, and pavement markings for a total contract cost of \$1.9 million. We look forward working with the Jackson TSC in the future for similar projects.



Culvert being lowered into place



A Head Start for 2022

As the new year continues to bring new opportunities for planning communities and other local agencies, it is important to evaluate the various options for funding your projects. Whether it is a project you have been working towards getting funded or a new promising opportunity, it is a great time to pursue funding due to the increased availability of resources.

Before beginning your grant research, we encourage you to begin by analyzing your priorities, needs, and goals. With a constantly evolving list of funding opportunities, along with inevitable community change, priorities from the last two years have likely also adapted.

Recently, the Michigan Strategic Fund approved two new initiatives that will support the repurposing of vacant, underutilized, blighted, or historical infrastructure. The first initiative is the Revitalization and Placemaking (RAP) program. This funding is extremely significant, providing up to \$20 million for regional partners and up to \$5 million for individual projects to aid the revitalization of the community while new changes are taking place. The rise in remote work has led to increased vacancy rates throughout Michigan's downtowns and commercial

districts. To combat the negative effects of the change, repurposing and renovations will be needed.

Along with the revitalization funds, Michigan Strategic Fund approved a new \$5 million Community Development Block Grant Funds for the Public Gathering Spaces initiative. To support creation and expansion of public gathering spaces in low to moderate income communities, this program will provide between \$200,000 and \$1 million for projects like parks, markets, playgrounds, and town squares.

To the right is a list of several additional funding resources that our clients have previously taken advantage of or that we see potential in for the upcoming year. While this list is certainly not exhaustive, it provides a good starting point for your research. If you have a particular project that you cannot find applicable funding for, please reach out to your ROWE project manager – as other opportunities may be available.

Prior to pursuing any funding resource, we suggest reaching out to agency staff to discuss your project. This conversation will create a space to discuss your best strategy, along with any constraints or issues that may arise.

Michigan Department of Natural Resources: Various competitive grants to support natural resource protection and outdoor recreation (Trust Fund, Passport, Land and Water Conservation, etc).

- *Funding Available:* \$15,000 to \$300,000 per project, with \$15-\$20 million available.
- *Timeline:* Recreation plans must be uploaded by February 1st and grants must be uploaded by April 1st.
- *Website:* <https://www.michigan.gov/dnr/>

U.S. Economic Development Administration: Under the American Rescue Plan EDA was allocated \$3 billion in supplemental funding to assist communities.

- *Funding Available:* Wide range of programs, including economic adjustment, travel and tourism, indigenous communities, planning and research, and workforce training.
- *Timeframe:* Grants are encouraged to be submitted by March 31, 2022
- *Website:* <https://www.eda.gov/funding-opportunities/>

USDA Community Facilities:

Provides funding to develop essential community facilities in rural areas. An additional \$500 million was allocated through the American Rescue Plan.

- *Funding Available:* Both grants and loans are available, with awards based on the size of the community and income levels.
- *Timeframe:* Grants are accepted year-round.
- *Website:* <https://www.rd.usda.gov/programs-services/community-facilities>

Michigan Economic Development Corporation:

A range of funding programs are available to communities to support revitalization and downtown development.

- *Funding Available:* Small grants for businesses, grants, and loans for revitalization projects, crowdfunding for public projects, and other resources are available.
- *Timeframe:* Funds are typically available on a rolling basis but vary by project or program.
- *Website:* <https://www.miplace.org/programs/>

Michigan Department of Transportation:

In addition to formula funding, MDOT also has competitive grant programs available to communities to support priority projects:

- *Funding Available:* The Transportation Alternatives Program (TAP) and Transportation Economic Development Fund (TEDF) provide funding for non-traditional projects and programs. Approximately \$24.5 million is available annually in the TAP program and approximately \$120 million was allocated in the TEDF program in 2020.
- *Timeframe:* Varies by funding type and location of the project, including whether it is located within a Metropolitan Planning Organization boundary.
- *Website:* https://www.michigan.gov/mdot/0,4616,7-151-9621_17216---,00.html



EMPLOYEE SPOTLIGHT
RYAN HARVEY



2022 South Carolina ASCE President

We are proud to announce the recent success of Ryan Harvey, PE, Senior Project Manager for ROWE. He has been acknowledged as South Carolina's American Society of Civil Engineers newest President for 2022!

New Hires

November

- Mohammad Yehya
- William Maitland

Staff Promotions

October

- Scott Hemeyer promoted to **Project Manager**

Staff Anniversaries

October

- Richelle Mills (5)
- Kenneth Perry (5)
- Andrew Perry (5)
- Rachel Bedard (4)
- Michael Roberts (2)
- Steven Neumann (2)
- Kyle Schroeder (2)
- Mary Forman (2)
- Daniel Beyer (1)

November

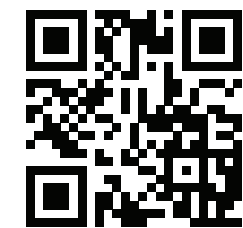
- James Fink (32)
- Jeffrey Rowley (29)
- Michael Carpenter (29)
- Michael Soteropoulos (4)
- Scott Saigeon (1)
- Michael Heiss (1)
- Lin Callahan (2)



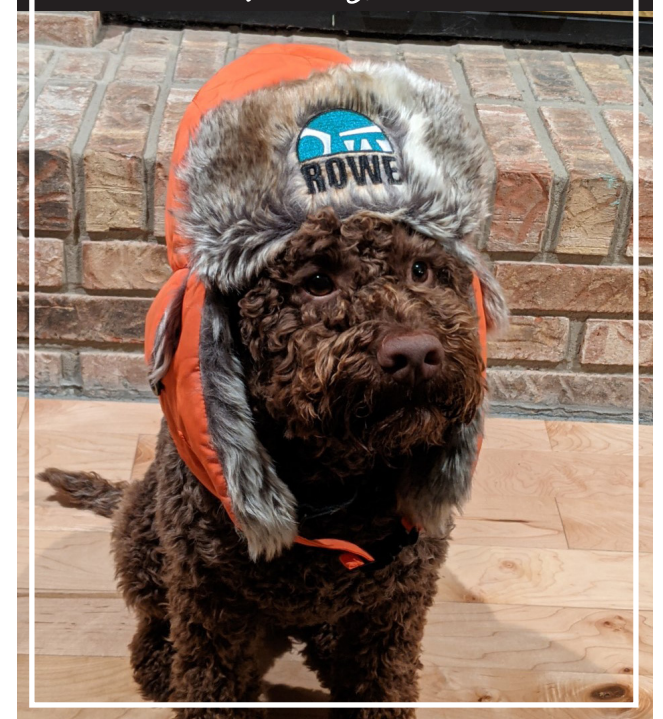
Careers

We recognize talented, self-motivated, and open-minded professionals are the key to ROWE's continued success and growth. From competitive benefits / compensation packages, to companysponsored events, ROWE takes pride in being a progressive place to advance your career.

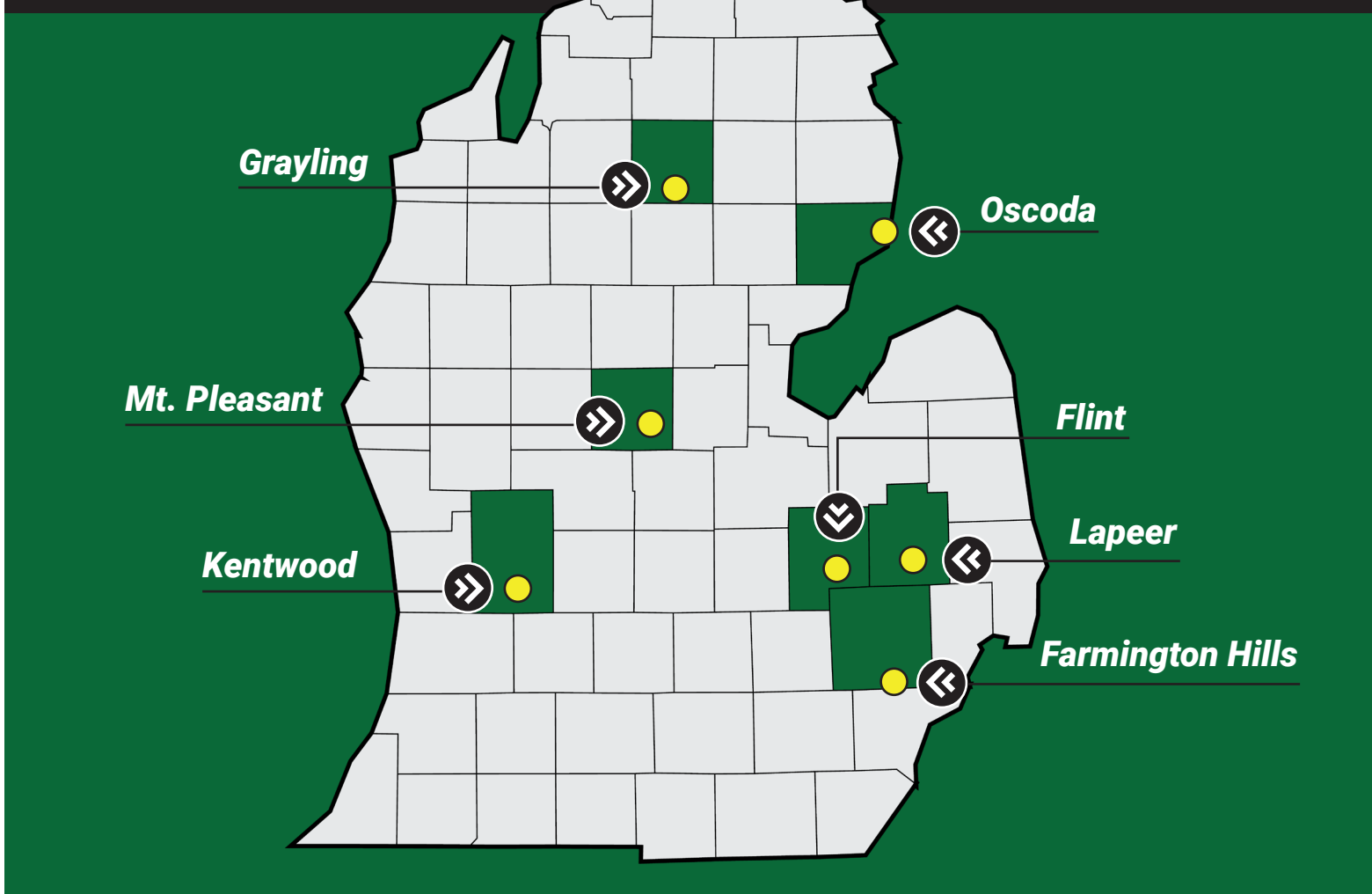
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Holiday Greetings
from Logo



MICHIGAN



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