

STATEMENT OF QUALIFICATIONS



PIONEERING
SOLUTIONS
FOR ALASKA'S
TOUGHEST JOBS

STG



Incorporated

WHO WE ARE

STG is a rural Alaska specialty contractor, with over 27 years of building infrastructure around the state. We specialize in creating strong partnerships with project stakeholders to solve unique problems, all while delivering exceptional value to our clients and the communities we serve. Our team plans, conducts all logistics, executes and manages heavy industry construction projects across the state, supporting development in some of the most environmentally and logistically complex locations in the world.

All of our work is guided by our mission to support the sustainable development of rural Alaska through delivering superior construction services and management by providing the highest levels of professionalism, innovation, safety standards, and quality craftsmanship.





LETTER FROM THE PRESIDENT



On behalf of STG Incorporated, I am proud to showcase our capabilities and a sampling of the unique developments our team has completed around Alaska. We take great pride in building infrastructure that improves the quality of life for all Alaskans. We view our clients as partners and strive to help solve their problems with sustainable development and industry leading construction practices. Together, we build infrastructure that reduces energy costs, supports both rural and urban communities, and delivers the most modern technological advancements.

Executing heavy and specialty construction across Alaska presents a unique set of challenges that STG has mastered. STG's team of high caliber craftsmen and professionals have turned these challenges into qualifications with our ability to perform projects of any size, nearly anywhere in Alaska. Embracing the unique complexities of working in remote Alaska has allowed us the opportunity to develop skill sets that can also be applied to other geographically challenged locations. We are excited about future opportunities to put these skills to use and to continue growing our knowledge base as we face new sets of complex hurdles in the last frontier and beyond.

We are privileged to share our expertise across public, private, federal and non-profit sectors to provide invaluable construction services. We look forward to learning more about how we can put our abilities, passions, resources and skill sets to work for you.

Sincerely,

Brennan Walsh
PRESIDENT, STG INC.

| WHY STG



We are pioneering development in some of the world's most remote, environmentally and logistically challenging locations.

With nearly 30 years of rural building experience, we have unmatched expertise in the vast complexities that accompany these projects. And our talented team is passionate about tackling these challenges every day to provide unparalleled solutions to our clients.

| SAFETY



Year after year, construction labor lands among the top ten most dangerous jobs in the country.

When cranes, helicopters, and other major machinery get involved safety must be the priority. STG's safety culture is built into everything we do and is embraced by every employee.

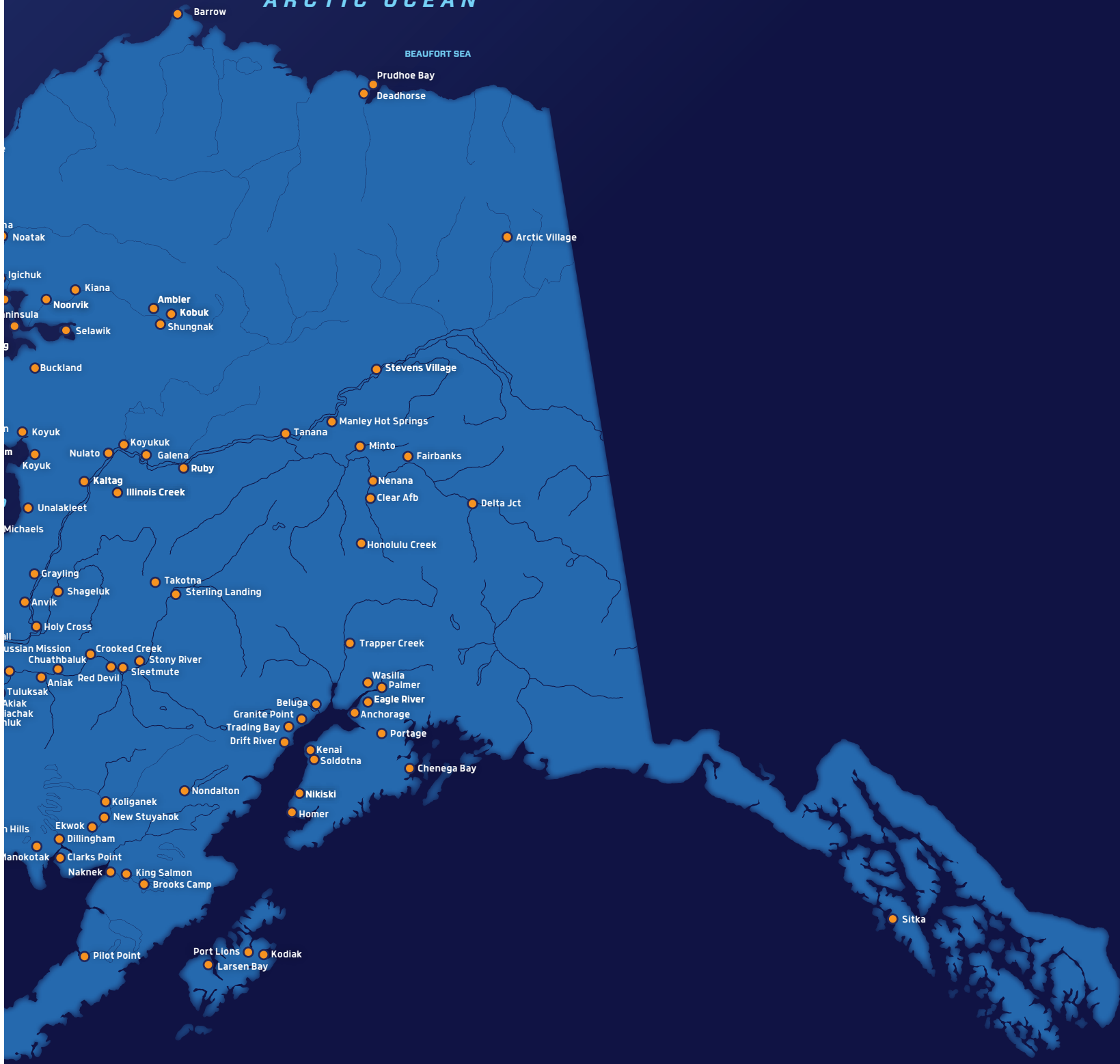
Whether scaling 300-foot tall communication towers or operating 600-ton cranes, we are in the thick of dangerous operations daily and prioritizing safety is the foundation from which our operations are conducted. STG's industry-leading .65 Experience Modification Rating (EMR) reflects our commitment to field safety and risk mitigation.



WHERE WE WORK



ARCTIC OCEAN



Barrow
Prudhoe Bay
Deadhorse
Arctic Village
Stevens Village
Manley Hot Springs
Fairbanks
Delta Jct
Nenana
Clear Afb
Honolulu Creek
Trapper Creek
Wasilla
Palmer
Eagle River
Anchorage
Portage
Chenega Bay
Nikiski
Homer
Beluga
Granite Point
Trading Bay
Drift River
Kenai
Soldotna
Nondalton
Kolliganek
New Stuyahok
Ekwo
Dillingham
Naknek
King Salmon
Brooks Camp
Pilot Point
Port Lions
Larsen Bay
Kodiak
Sitka



CORE SERVICES

PIONEERING SOLUTIONS FOR ALASKA'S TOUGHEST JOBS



Bulk Fuel System Installation

STG has been entrusted to construct more than 40 bulk fuel systems across the Arctic and Western Alaska.



Bridges & Elevated Walkways

STG specializes in construction in and around our state's waterways and sensitive wetland habitats. Specifically, STG has extensive experience developing structures that require alternate foundations.



Waterfront & Erosion Mitigation

Waterways are a vital lifeline and STG commonly improves the dock and barge landing facility access for critical commodities as well as residential subsistence.



Pile Foundation Installation

Building on permafrost, sand and silt requires extensive foundation work to ensure a strong start for a stable structure.



Communication Tower Construction

From tower foundation to installation to maintenance, STG is an all-in-one solution for microwave and wireless telecommunications infrastructure.



Microgrids With over 250 rural towns and villages, isolated from road systems and modern infrastructure, STG's specialty in interconnecting these communities to centralized power generation has provided a more efficient system to replace the antiquated generation facilities many have been running on for years.



Wind Turbine Installation

STG has installed 80% of all community-scale wind turbines in Alaska, which can help off-set expensive fuel costs.



Crane Services

From versatile all-terrain cranes to the largest crane in the state, STG's sophisticated crane fleet caters to a variety of industries including telecommunications, construction and energy.



Specialty Logistics

On average we conduct work in 25 remote communities throughout Alaska and our logistics team has managed projects in every region of the state.



Civil Construction

In rural Alaska roads may be made of ice, bridges are replaced by steel boardwalks and mooring points outnumber canals.



BULK FUEL SYSTEM INSTALLATION

Diesel fuel is truly the lifeblood of rural Alaska.

Improperly installed or inadequately constructed fuel tanks can cause dangerous fuel leaks and spills, which jeopardizes the safety and well-being of rural Alaskans. STG has been entrusted to construct more than 40 bulk fuel systems across the Arctic and Western Alaska. Put your community fuel storage needs to Alaska's most capable and experienced hands.

SERVICES:

- Constructability consultation
- Prefabricated and field-fabricated construction
- Prefabricated horizontal construction
- Diked construction and tank installation
- Double-wall construction and tank installation
- Total renovation



BRIDGES & ELEVATED WALKWAYS

Building bridges and elevated walkways in Alaska is an especially complex endeavor.

With more than three million lakes, over 12,000 rivers and thousands of streams and creeks, Alaska has more than 40% of the entire Nation's surface water resources. Additionally, 43 percent of the state's surface area is made up of wetland habitats. In interior Alaska, especially along the Yukon, Kuskokwim and Koyukuk Rivers, there are large swaths of wetlands, areas where STG projects are frequently located. Rural communities around the state are commonly built on wetlands and along waterways creating a significant need for infrastructure to allow everyday travel.

STG specializes in construction in and around our state's waterways and sensitive wetland habitats. Specifically, STG has extensive experience developing structures that require alternate foundations. Building with unique constraints including fish habitats, isolated communities, wildlife migration patterns, extreme tides and weather are commonplace for the team at STG. We have the expertise, equipment and experience to solve builds in difficult locations with a minimal equipment spread, creative solutions, resourcefulness and agility.



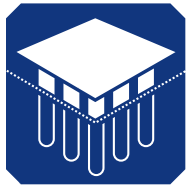
WATERFRONT & EROSION MITIGATION

With 33,904 miles of shoreline, Alaska has more coastline than the entire coastal border of the contiguous United States combined and very few roads connecting communities. Waterways are a vital lifeline and STG commonly improves the dock and barge landing facility access for critical commodities as well as residential subsistence.

With as much coastline as we have, combating erosion is a common challenge throughout the state. STG has conducted many erosion control and mitigation projects to protect shorelines and prolong the sustainability of critical community infrastructure. Additionally, this work supports the traditional lifestyle of the community members who have lived there for thousands of years.

SERVICES:

- Constructability Consultation
- Dock Facilities Construction and Refurbishment
- Pile Supported and Floating Facilities
- Sheet and Soldier Pile Walls
- Concrete and Rock Armor Revetments
- Remote Mooring Point Installations
- Project Spotlight
- Drift River Erosion Control



PILE FOUNDATION INSTALLATION

What lies beneath Alaska's beautiful landscape isn't always so pretty.

Permafrost, sand, silt and shallow bedrock are inescapable in Alaska and building in these conditions requires extensive foundation work to ensure a strong start for a stable structure. Not surprisingly, nearly every structure in rural Alaska is built on pilings. Trust your next construction job to Alaska's most experienced pile foundation contractor.

SERVICES:

- Constructability consultation
- Driven and drilled steel piles
- Thermopiles and adfreeze piles
- Helical anchors and piles
- Micropiles
- Concrete foundations



COMMUNICATION TOWER CONSTRUCTION

*Thanks to the internet and mobile technology,
where we live no longer determines how we live.*

However, access to high-speed communication has been elusive for many living in rural Alaska. Bringing telemedicine, online education, and videoconferencing to Alaskans is a big responsibility.

We're your all-in-one solution for microwave and wireless telecommunications infrastructure in the Arctic and rural Alaska. From foundation to installation, trust your next telecommunications job to the experts.

SERVICES:

- Constructability consultation
- Turn-key design-build communication systems
- Microwave tower, foundation, and antenna installation
- Wireless monopile foundation and installation
- Remote module and repeater installation
- Waveguide, antenna, and ice shield installation
- Wireless hardware installation
- Fiber optic support installation
- Tower maintenance



MICROGRIDS

Alaska is home to over 250 isolated communities operating microgrid power systems.

STG specializes in interconnecting remote communities to centralize power generation and retire inefficient and antiquated generation facilities. Our team has experience planning, executing and managing all aspects of the project lifecycle. Uniquely, our intertie work often includes ice road construction and maintenance, drilling and blasting, pile foundations and finding solutions to complex environmental and geographical challenges.

We provide solutions for common challenges, including remote logistics, building in environmentally sensitive wetlands, winter construction, differing subsurface conditions, challenging surface terrain, and unpredictable and extreme weather.



WIND TURBINE INSTALLATION

Our expertise supports work to address one of the greatest challenges facing rural Alaska—affordable energy.

Incorporating wind technology into Alaska's energy mix can help off-set expensive energy costs, such as diesel fuel.

Wind is a clean source of renewable energy and STG Incorporated has installed more community-scale wind farms in Alaska than any other contractor, approximately 80 percent of those currently in operation.

SERVICES:

- Constructability consultation
- Tower foundation and turbine installation
- MET tower installation
- Civil and site access development
- Logistics management
- Transmission/Communication line installation
- Integrity testing
- System integration and calibration
- Operations and maintenance



CRANE SERVICES

From the oil fields of the North Slope to the dams of Southeast, we have a crane within your reach.

From versatile all-terrain cranes to the largest crane in the state – the German-crafted Liebherr LR 1600/2 – STG has the right crane for the job. We cater to a variety of industries throughout rural and urban Alaska, including construction, telecommunications, and energy development.

SERVICES:

- Constructability consultation
- Heavy lift consultation/3D lift planning
- Heavy lifting, long-reach hoisting, setting, and relocating
- Certified crane operators and riggers
- Lifting capacity from 28 ton boom truck to 660 ton crawler crane
- Mobile cranes



SPECIALTY LOGISTICS

STG has an in-house specialty logistics team that performs detailed logistics planning for all of our projects.

In addition, logistical planning and execution is ingrained in our entire project management team. Logistical resourcefulness and mitigation planning are core elements of our team's daily processes and a major factor in our widespread project success.

On average we conduct work in 25 remote communities throughout Alaska and our logistics team has managed projects in every region of the state.



CIVIL CONSTRUCTION

Typically, civil construction refers to building public works such as roads, bridges, and canals. In rural Alaska, however, the roads might be made of ice, elevated boardwalks are more common than bridges, and mooring points outnumber canals. Our frontier-tough fleet of state-of-the-art, late-model civil and heavy equipment can handle swamps, permafrost, erosion, and anything else Mother Nature has up her sleeve.

SERVICES:

- Constructability consultation
- Erosion control/shoreline protection
- Ice and snow roads/runways construction
- Demolition
- Drilling and blasting
- Roads and pads construction
- Underground utilities

PROJECTS



EKWOK LANDFILL ROAD BRIDGE PROJECT

LOCATION: Ekwok, Alaska



PROJECT DESCRIPTION

STG was selected by the Ekwok Village Council for construction of a bridge structure needed for access to subsistence gathering grounds and a new landfill site across Klutuk Creek outside of Ekwok, Alaska. STG provided value engineering by redesigning the bridge abutments utilizing a

sheet pile wall method, which saved the client over one million dollars, making this project possible. STG was tasked with installing a 115-foot single span steel bridge, sheet pile retaining walls, pile abutments, and approaches. In addition, STG installed a temporary bridge at the project site to aid in construction of the permanent structure.

CHALLENGING LOGISTICS, TRANSPORT & WEATHER

Due to the project location, a complex logistics plan was needed to mobilize all necessary equipment and materials to Ekwok. All materials were delivered to Dillingham via barge, before being transported up the Nushagak River to Ekwok as water levels allowed. The most crucial aspect of this project was the navigation of various permits associated with work in and around Klutuk Creek. Under the Anadromous Fish Act, Klutuk Creek has been classified as an important habitat for the spawning, rearing, and migration of multiple species of fish. As a result of these permits, all in-water work was limited to an approximately 30-day period. STG crews installed and maintained sediment and erosion control measures throughout project activities and developed and adhered to a stringent environmental protection plan to minimize the impact to the vital Klutuk Creek habitat.

In addition to delivering the project on-time, STG, being sensitive to the community's limited budget, provided value engineering and redesigned the bridge abutments utilizing a sheet pile wall method; thereby, saving the client over one million dollars, making this project affordable.

GCI TERRA

LOCATION/REGIONS: Kotzebue Sound, Norton Sound, Upper Yukon

PROJECT DESCRIPTION

The Terrestrial for Every Rural Region in Alaska (TERRA) project is GCI's vision to bring a next-generation communications network to some of the most remote stretches of land in Alaska. With STG as the General Contractor for this negotiated IDIQ design-build contract, this vision is now a reality for over 45,000 Alaskans via 3,300 miles of fiber-optic network. Started in 2010, this monumental infrastructure today provides 84 villages access to high-speed terrestrial broadband service through one of the largest fiber-microwave networks in the country. After seven years of engineering and construction, the team closed the "TERRA ring" in 2017, bringing endless opportunities for development to the communities it serves.

The TERRA network spans from Noatak, above the Arctic Circle, to Nenana, in Interior Alaska, roughly 450 miles away. There are no roads connecting many of these rural communities. STG built towers in rural villages and transferred to mountaintops using heavy-lift helicopters, where crews were then stranded when the helicopters drop tower equipment and fly away. Our crews had to go through weeks of isolation at a time while working to build out this next-generation network for communities – some of which still don't have access to running water.



CHALLENGING LOGISTICS, TRANSPORT & WEATHER

STG utilized heavy-lift helicopters, medium-lift helicopters, smaller support helicopters, an array of fixed wing aircraft and marine barges to overcome logistical obstacles. Heavy-lift helicopters were used to transport shelters, tower segments, fuel tanks and battery banks, all weighing between 11,300 and 22,000 pounds. Utilizing the heavy-lift helicopters would typically pose quite a budget risk, as they are extremely expensive to operate, however STG implemented proactive scheduling and maintained well organized project sites that allowed for the project to stay on schedule and within the budget.

Commercial barge services were used to transport project and equipment to the Norton Sound region. In some instances, STG combined these methods of transportation and had heavy-lift helicopters picking up materials directly from barges and delivering them to project sites when a barge could not access the area.

“STG’s knowledge of rural Alaska is a true asset to the project. STG has established relations in Western Alaska where they support local economies by procuring housing, transportation, and hiring local residents whenever possible. GCI would definitely consider partnering with STG on future projects.”

REBECCA MARKLEY, GCI-TERRA

LOCAL LABOR & RESOURCES

STG approached each new site with care and consideration toward the community and kept in close contact with village administrators to ensure that trail use was minimal and approached considerably. STG conducted briefings on potential environmental, cultural and wildlife preservation/hazards with the State Historic Preservation Office (SHPO). A construction schedule and helicopter flight path were developed to mitigate birthing seasons and hunter game patterns on the Yukon.



Throughout the duration of its work on the TERRA network, STG hired local contractors whenever possible. STG also purchased all fuel locally that was needed for all construction efforts as well as used local housing and partners to provide camps for staff during tower construction.

EMMONAK ENERGY UPGRADES

LOCATION: Emmonak & Alakanuk, Alaska

PROJECT DESCRIPTION

The communities of Emmonak and Alakanuk are located along, and near the mouth of, the Yukon River in Western Alaska. These communities are dependent on imported diesel fuel for power generation. The Alaska Village Electric Cooperative (AVEC), as part of their mission to provide reliable and sustainable energy to their constituents, contracted STG to provide energy upgrades and interconnect the two communities. STG started this effort back in 2010 through their existing IDIQ term contract with AVEC.

COMPLEXITY & REMOTENESS

Through a design-build task order, STG delivered a 10.5-mile power intertie between Emmonak and Alakanuk, installed four 100 kW Northwind100 wind turbines in Emmonak, and a standby generation facility in Alakanuk. The intertie was a pile supported overhead line traversing sensitive wetlands and included two Yukon River crossings with spans of 1,113 feet and 673 feet. The wind turbines included all civil access roads and pads, pile supported foundations, turbine erection and electrical distribution and interconnection.

CHALLENGING LOGISTICS, TRANSPORT & WEATHER

The barge logistics were particularly challenging for this phase of the project. The shop fabricated vertical fuel tanks delivered via barge were too large to transport from the traditional barge landing (port), through town, to the project site. As a result of collaboration with multiple local stakeholders, STG identified an alternate barge landing off the Yukon River slough and performed a survey to collect depth readings, thereby, mapping a route for the barge to the alternate landing. This effort was critical to the success of the project.



STG began building the ice required to cross the Yukon River and sensitive tundra in December 2010; started construction after the ground froze in early-mid January 2011; and completed the project before the ice melted in mid-April of the same year.

This project was challenging, in part, due to the fluctuating weather and warming trends that made access over the river crossings and tundra difficult and periodically unfeasible. STG, at times, adjusted their work schedule to capture windows of freezing temperatures to build ice and stage materials along the intertie route. With the needed use of an 85-ton and a 100-ton crawler crane, along with the other heavy equipment required, completing this project within one “winter” season was no small feat and STG delivered the project within budget.

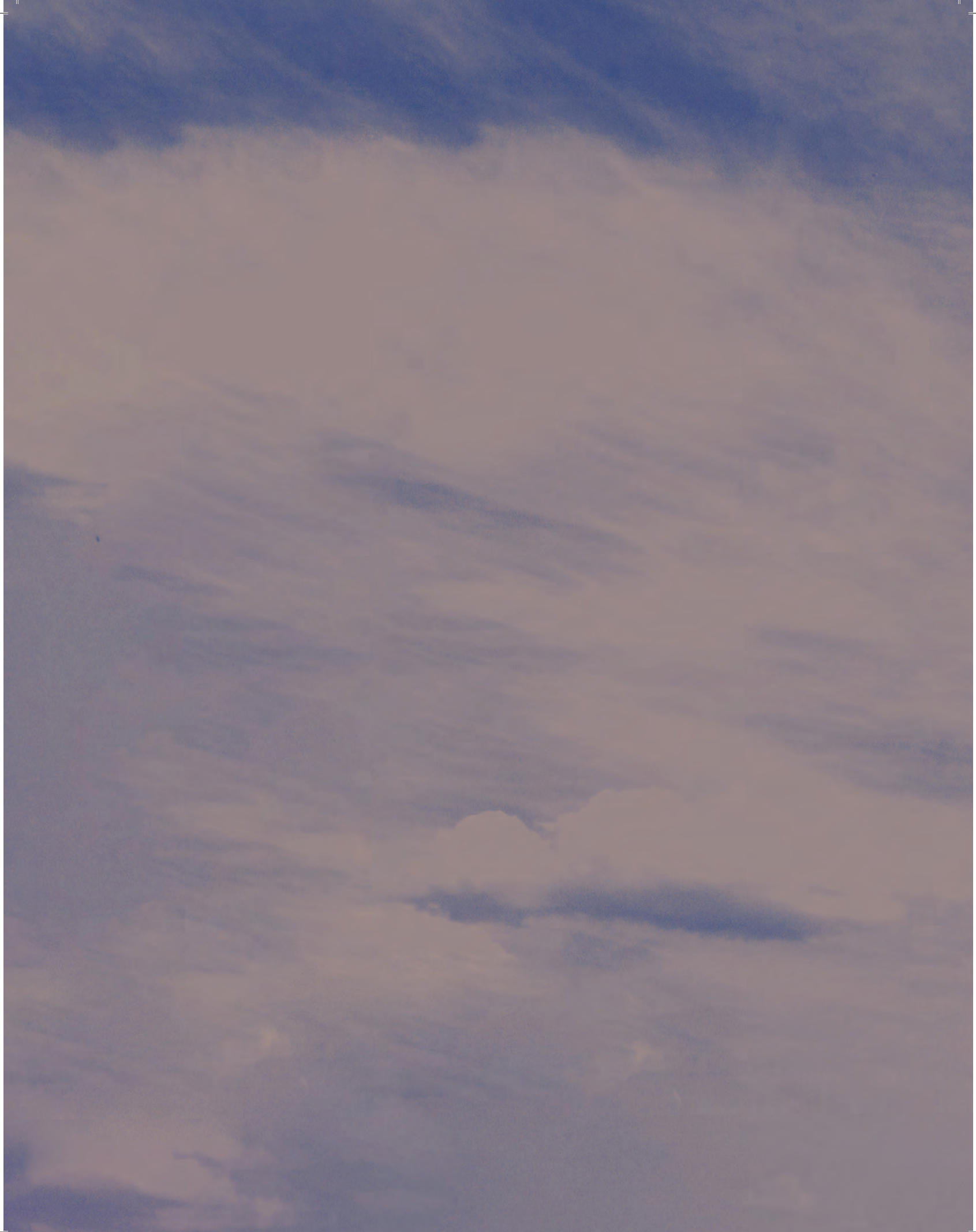
STG self-performed all Construction Management tasks and most of the field work to include civil access roads and pads, construction of a pile supported steel containment with over 800,000 gallons in new tank capacity, marine header, issue, supply, and manifold piping, a pile-supported new power generation facility powered by two Caterpillar (CAT) 3456 generators, one CAT 3516 generator, and one CAT 3512 generator. This work involved remote concrete batching and placement, and the cleaning and demolition of existing BFU and generation facilities, as well.


LOCAL LABOR & RESOURCES

STG maintained a local hire workforce of 29%, on average, and managed subcontractors for tasks involving the installation of electrical, controls, fire suppression, and 3rd party special quality control.







A tall, lattice-structured tower is being lifted by several thick cables. The tower is positioned vertically in the center of the frame. At the bottom, several workers are visible on a platform, managing the cables. The background is a sky with scattered clouds. The overall image has a blue-tinted, slightly desaturated appearance.

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