Turning Your Project Vision into Reality

PLAN TO SUCCEED

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Planning Your Project

Erosion Repairs

Nome Fish Dock, Floats and Low Level Dock

Togiak Multi-Purpose Dock

Yakutat Dock
Project success begins with clear communications with your designer; depends upon careful, realistic planning; and requires constant monitoring of progress, budgets, and schedules.
Successful Projects Abound

• Togiak Sheet Pile Dock and Boat Ramp Facility
Rendering of the Togiak project used to help obtain $3.3 million grant funding.
Community Benefits of Project

- Provides dock for import of freight and fuel
- Fishing – provides dock and cranes for loading
- Provides boat ramp for launch/retrieve – improved safety
- Tribe and City worked together to complete project benefitting the entire community
- Resulted in significant investment in the community providing jobs
- Revitalized fish processing industry – increased fish prices paid to fishermen
Togiak Multipurpose Dock – Local quarry used for production of armor rock and fill material
Togiak Multipurpose Dock - Construction of the sheet pile dock and concrete launch/barge ramp in progress.

Local labor was used for much of the project. The sheet pile dock construction was performed by a specialized marine contractor.
Togiak Multipurpose Dock – Completed boat launch ramp and fill dock – provides a robust, very low maintenance facility suited to the harsh environment.
Major Aspects of Togiak Project

• Planning, Scoping and Cost Estimates (DSR)
• Geotechnical Investigation and Site Survey
• Permitting and Tideland Lease Application
• Detailed Design and Cost Est
• Grant Application Assistance
• Property Subdivision and ROW
• Construction Contract and Bidding
• Construction Admin and On-Site inspection
• Project Close-out and As-built drawings
Project Successes

• Well defined project scope – project strongly supported by the community
• Good communication with Tribe and City
• Robust, low maintenance design
• Bid structured with Additive Alts. to allow project to fit within grant amount
• Construction utilized local labor
• Utilized local materials – rock quarry and fill
• Construction contractor repaired and utilized local equipment – remained on site for future
Develop the Vision

- Determine project purpose and need
- Develop high-level project scope
- Define how the project will benefit the community
- Identify stakeholders in the project
- Obtain support from stakeholders
Major Project Phases

• Project planning and concept design (Design Study Report)
• Collect site information
• Local input on project and site conditions
• Preliminary design and project permitting
• Cost estimating and grant funding applications
Major Project Phases *(continued)*

- Detailed design
- Contract documents and bidding
- Construction
- Construction management
- Quality assurance
- Inspection
- Project close-out; as-built drawings
Select a Consultant

- Appropriate project experience
- Experience in remote Alaska
- Preferably experienced in your specific area
- Get references from past clients
- Based selection on qualifications; do not base selection on cost
- Develop a relationship
- Communication is critical
Collaborate with Your Consultant

- Develop design criteria for project
- Develop concept drawing
- Develop ROM cost estimate
- Develop preliminary schedule
- Discuss anticipated maintenance
  - Consider alternatives with lower maintenance
Identify Needed Background Studies

These may include:

- Bathymetry
- Survey
- Geotechnical
- Hydrology
- Wave studies
- Water quality

- SHPO/archaeology
- Permitting
Identify Sources for Project Funding

- Bureau of Indian Affairs
- Economic Development Administration (EDA)
- TIGER (Transportation Investment Generating Economic Recovery) (USDOT) grant
- State programs
- Legislative appropriation
- Other sources
- Local match requirements
What Can You Afford?

• Evaluate available project funds for scope
• Consider phasing your project; fund smaller pieces at a time
• Flexible Bid Schedule – Additive Alternates
Property Issues/Public Access

• Easements
• Tideland lease
• Rights-of-Way
• Confirm property ownership/access
**Detailed Design Phase**

- Select a qualified, reputable firm.
- Clear scope, deliverables, budget and schedule.
- Communications – set up weekly meetings. Ask questions.
- Review progress submittals closely.
- Constant monitoring of scope, schedule and budget.
- Expect and communicate changes as project progresses.
Be Prepared: Put it in Writing

- Scope
- Schedule
- Budget
- Review these periodically at the 30%, 65%, and 95% levels of design, and upon completion.
Managing Funds

• Meticulous fund management is critical, expect audits

• Enlist the professional assistance of a reputable, capable, experienced accounting firm if needed

• All allocations must be appropriate, defensible and documented
Construction – Going to Bid

• Bid documents and drawings and contract
  – Thorough
  – Complete
  – All details and information

• Changes are fairly common – anticipate 5-10% extra for unknowns, have funds available
During Construction

• Quality construction management
• Qualified on-site inspector
• Quality assurance
• Ensure project is constructed according to design.
• Carefully and review all contractor pay requests.
• Pay only when work has been completed properly.
Successful Projects Abound

- Kake Intermodal Transit Facility
• Barrow and Point Hope erosion protection
• Port Lions Dock and Ferry Terminal
• Alaska Village Electric Cooperative Mekoryuk Dredging
PND Project Expertise

- Erosion control projects
- Roads and bridges
- Culverts and drainage
- Marine infrastructure
  - Boat launch ramps
  - Barge docks
  - Small boat harbors
  - Fuel docks and storage
- Water and Sewer
- Buildings and boardwalk
- Wind power generation
- Hydroelectric
- Permafrost / Arctic
Project success begins with clear communications with your designer; depends upon careful, realistic planning; and requires constant monitoring of construction budgets, and timelines.
Questions?

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