



# Alaska Department of Transportation & Public Facilities

## Standardized Designs for Public Buildings

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# Statewide Public Facilities – Functions

- Statewide Public Facilities (SWPF) provides project management services for the planning, design and construction for both new vertical facilities (buildings) as well as renovation of existing facilities for most State of Alaska Departments.



DOL- AVTEC Dormitory (Seward)



## **Statewide Public Facilities – Functions**

- AS 35.10.190(a) The Department shall coordinate the procurement of physical facilities for the state to insure the greatest cost saving of planning, design, and contractual techniques.
- Eleven Professional Engineers, three Licensed Architects, two Project Manager Professionals and four Engineers in Training.



# Energy Savings Performance Contracting

- Method for accomplishing energy improvement projects that are funded by the energy savings of those projects.
- The State has achieved combined energy cost savings greater than **\$2.1M per year** in over 40 public facilities statewide.

ANNUAL ENERGY SAVINGS ACHIEVED		
Electricity	> 7,700,000	kWh
Natural Gas	> 162,000	CCF
Heating Oil	> 227,000	Gallons
CO2 Reduction	> 9,500	Tons

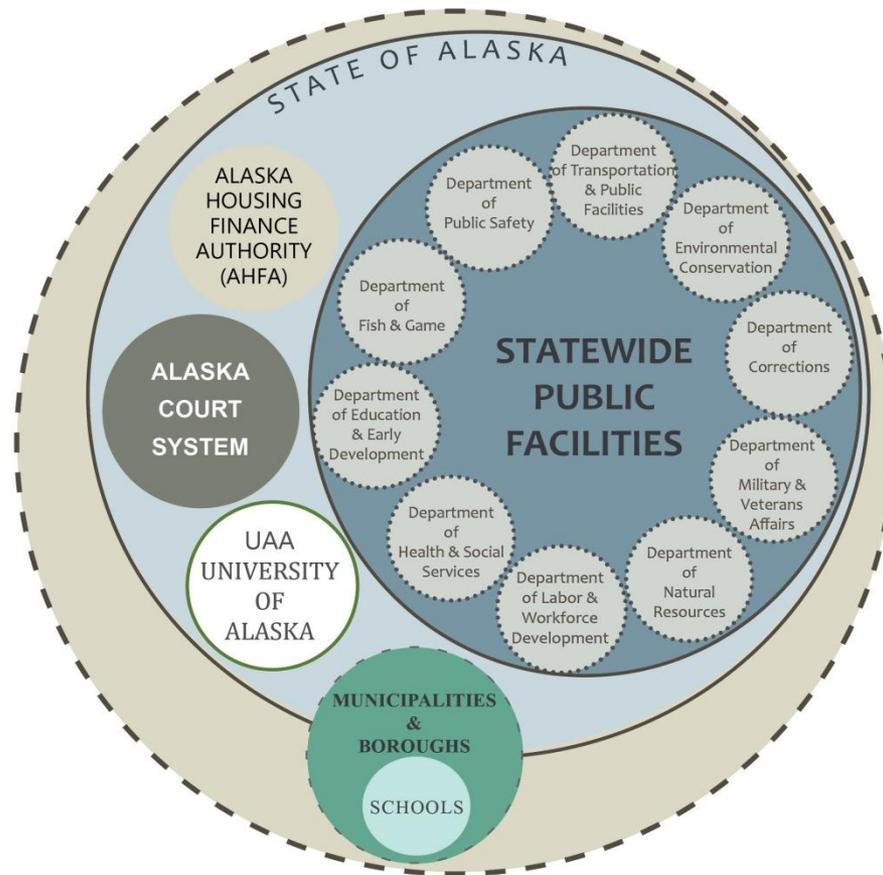


# Current Regulatory Requirements

- AS 44.42.067 (b-c) Retrofits and new construction shall meet ASHRAE 90.1, Energy Standards for Buildings.
  - ASHRAE 90.1 has been adopted by most states, including Alaska through the Alaska Sustainability Act.
  - Provides energy efficiency requirements for the design and construction of buildings and guidance for operation and maintenance



# Capital Improvement Projects in Alaska





# Public Buildings in Alaska

- Vary widely in complexity and function from a highway sand storage shed to a fish and game sport fish hatchery.
- Significant variation in energy costs depending on location in the State.
- Must be designed to withstand significant variations in climatic conditions and geotechnical requirements –Ketchikan to Nome.



# Questions & Further Information

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***Thank you  
for your  
attention  
and this  
opportunity.***