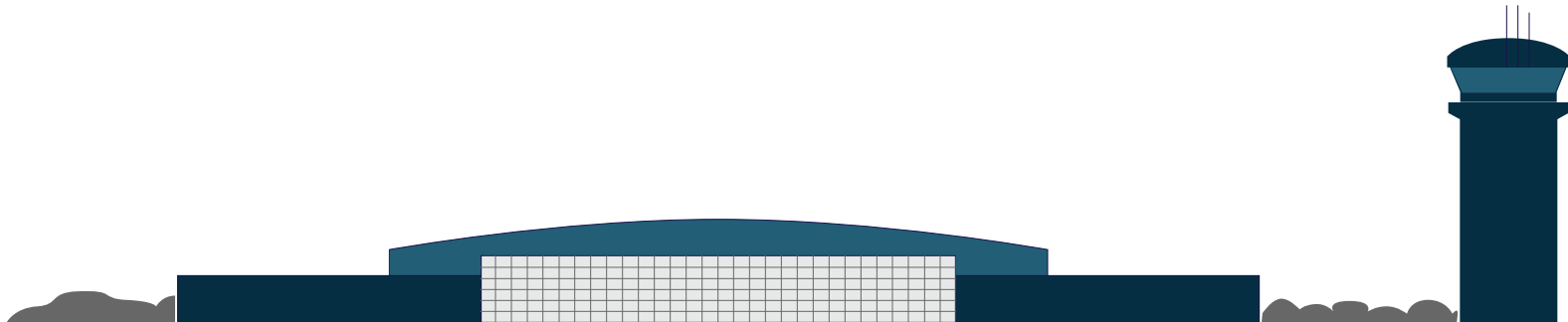


Cape Cod Gateway Airport

FY2024 CIP Presentation to
Town Council
April 27, 2023

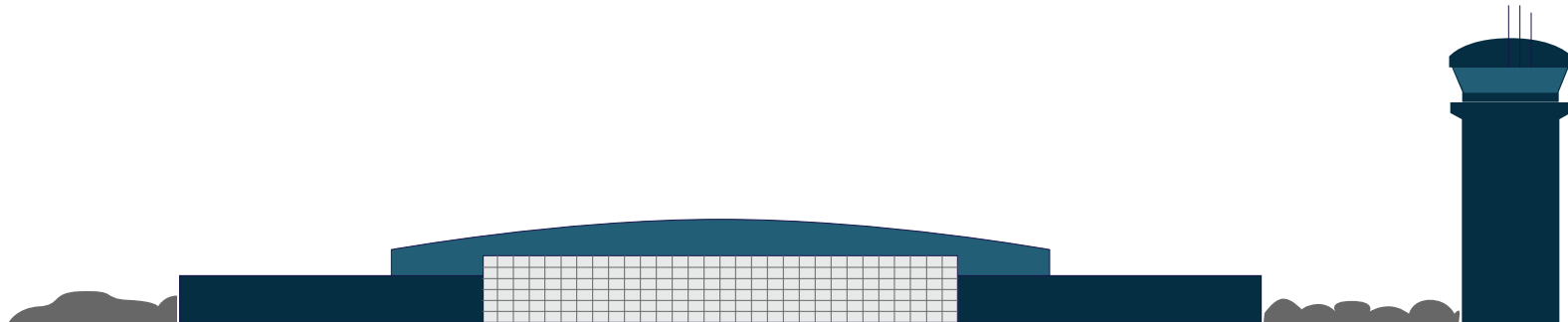


A.O. 2023-119 to 2023-125

→ Airport Enterprise Fund 5-year plan

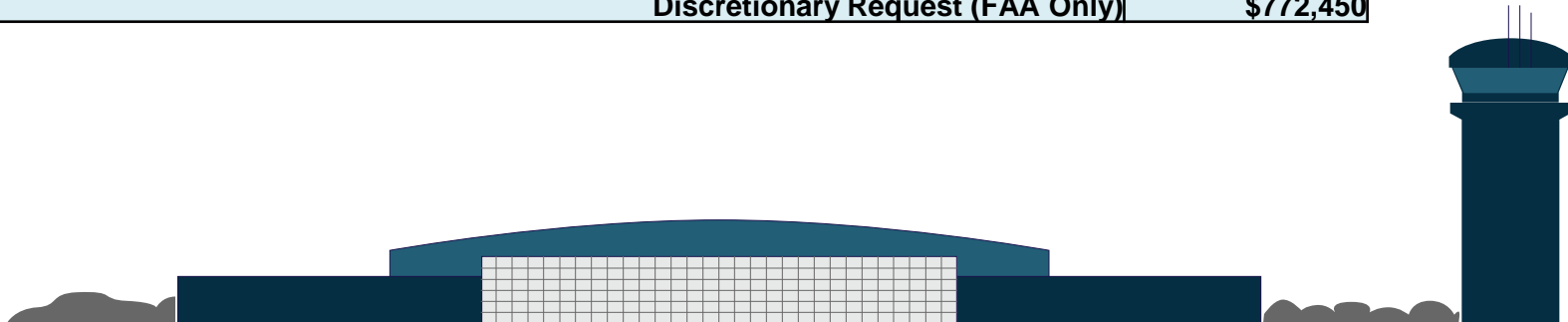
→ See **pages 130-143** of the TOB Capital Budget & FY2024-FY2028 CIP Booklet

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
BMA	1	HVAC Upgrades to Terminal & Tower	1,015,864	-	-	-	-	1,015,864
BMA	2	Master Plan Updates	525,000	-	-	-	-	525,000
BMA	3	Security Camera Upgrades	689,000	-	-	-	-	689,000
BMA	4	Replace SRE Equipment 10-wheeler - Airport #47	383,000	-	-	-	-	383,000
BMA	5	SRE Equipment Storage Facility	1,120,580	-	-	-	-	1,120,580
BMA	6	Electric Aircraft Support Vehicle & Charging Station	505,000	-	-	-	-	505,000
BMA	7	Jet A Fuel Storage Tank	355,000	-	-	-	-	355,000
BMA	8	Relocate & Extend Taxiway B	-	8,800,000	-	-	-	8,800,000
BMA	9	Replace SRE Equipment - Airport #38 (ASV Skid Steer Plow)	-	100,000	-	-	-	100,000
BMA	10	Replace SRE Equipment - Airport #32 (Chevy 2500HD)	-	80,000	-	-	-	80,000
BMA	11	Terminal Upgrades - Jetway/Gate Expansion/Hold room expansion	-	1,500,000	-	-	-	1,500,000
BMA	12	Reconstruction and Re-Alignment of Taxiways Delta and Echo at Runway 15	-	-	5,300,000	-	-	5,300,000
BMA	13	Terminal Restroom Remodel	-	-	1,015,864	-	-	1,015,864
BMA	14	Acquire Easements/Acquisition for Future Construction/Runway Extension	-	-	-	6,750,000	6,750,000	13,500,000
TOTAL AIRPORT			\$ 4,593,444	\$ 10,480,000	\$ 6,315,864	\$ 6,750,000	\$ 6,750,000	\$ 34,889,308



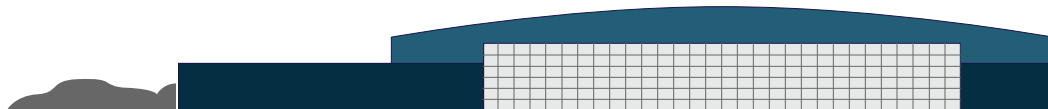
FY2024 Project Priorities

AIR-24-1	1	Upgrade Terminal & Tower HVAC Systems	\$1,015,864
AIR-24-2	2	Permitting (Airport Master Plan Update Projects)	\$525,000
AIR-24-3	3	Design & Implement Airport Security Camera Upgrades to meet TSA requirements	\$689,500
AIR-24-4	4	Replace SRE Equipment 10-wheeler - Airport #47 (Sterling Carrier Vehicle with plow and sander circa 2006)	\$383,000
AIR-24-5	5	SRE Equipment Storage Facility - Storage (Size TBD)	\$1,120,580
AIR-24-6	6	Electric Aircraft Support Vehicle/Station	\$505,000
AIR-24-7	7	Design, Permitting & Construct Jet-A 20,000 gallon tank	\$355,000
Projects Total Cost for Fiscal Year			\$4,593,944
Anticipated Grants (FAA)			\$1,892,250
Anticipated Grants (MassDOT)			\$389,125
Anticipated Grants (Other such as Mass Works, CARES Act, BIL etc.)			\$2,136,444
<i>Airport Enterprise Fund Cost</i>			<i>\$176,125</i>
Potential Fiscal Year Entitlement (FAA Only) - Dependent on Federal Appropriation			\$1,000,000
Carryover from Previous Fiscal Year (FAA Only)			\$119,800
Total FAA Grant Funds Available This FY			\$1,119,800
Possible Federal Carryover to Next FY			\$0
Discretionary Request (FAA Only)			\$772,450



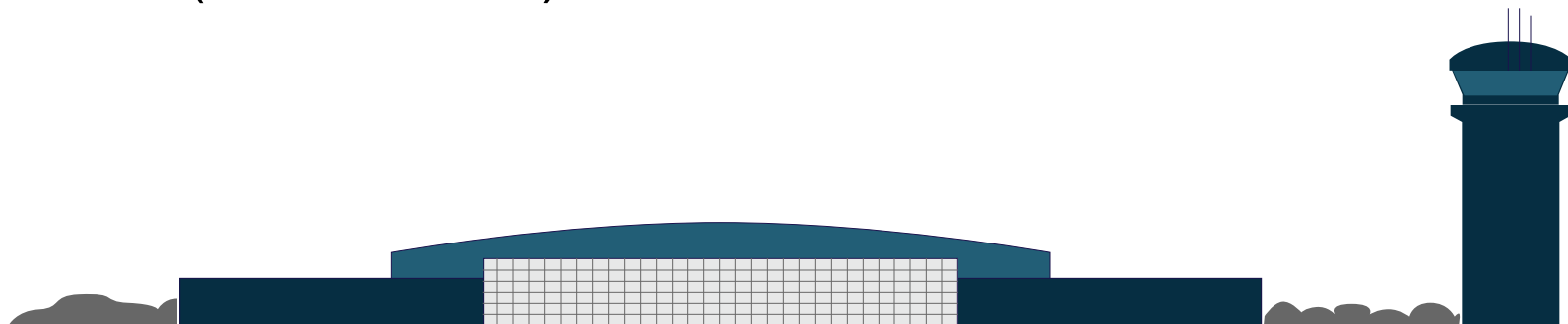
2023-119: Upgrade HV/AC Systems – Airport Terminal & Tower

- Terminal/Tower constructed in 2011
- The Heating and Air Condition Systems (HVAC) are showing their age – the Tower in particular needs replacement.
- Past year, the airport has been required to conduct more than routine maintenance on the system. Although contracted maintenance is performed twice per year
- Tower system failure within past year = temporary fixes implemented
- Funding: \$1,015,864 (estimate July 2022)
 - 95% funded by FAA and
 - MassDOT 5%
 - Airport funded 5% (\$ 50,793.20)



2023-120: Permitting – Airport Master Plan Projects

- Environmental permitting associated with various airfield safety improvements proposed as part of the Airport Master Plan Update and currently undergoing Environmental Review
- Project includes environmental permitting as required by Federal, State, and Local agencies for implementation of proposed improvements.
- Funding: \$1,015,864 (estimate July 2022)
 - 95% funded by FAA and MassDOT 5% Airport funded (\$ 50,793.20)



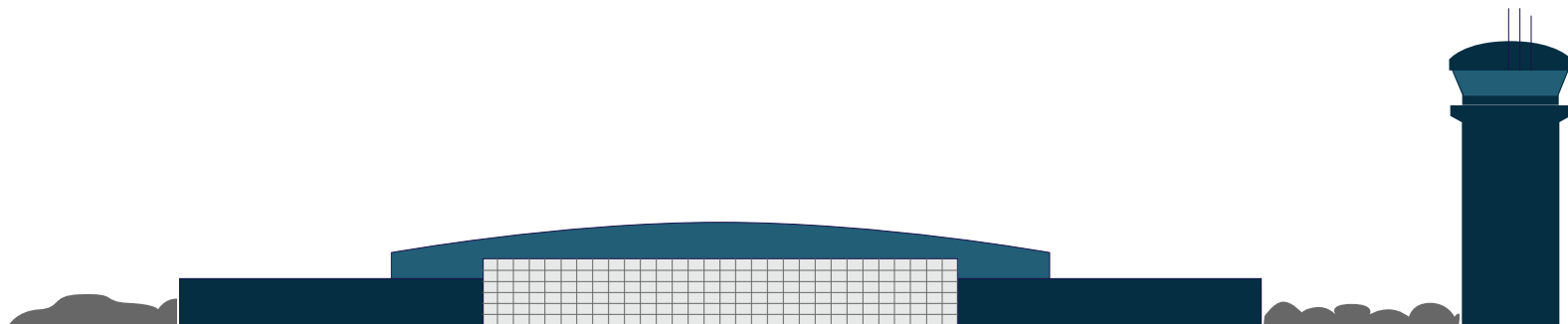
2023-120: Permitting – Airport Master Plan Projects (Cont.)

→ Projects include:

- Viability for extending Runway 15/33;
- Taxiway geometry and modifications for compliance with federal design standards for Taxiway B, D, & E;
- Terminal improvements; and
- Apron and hangar development.

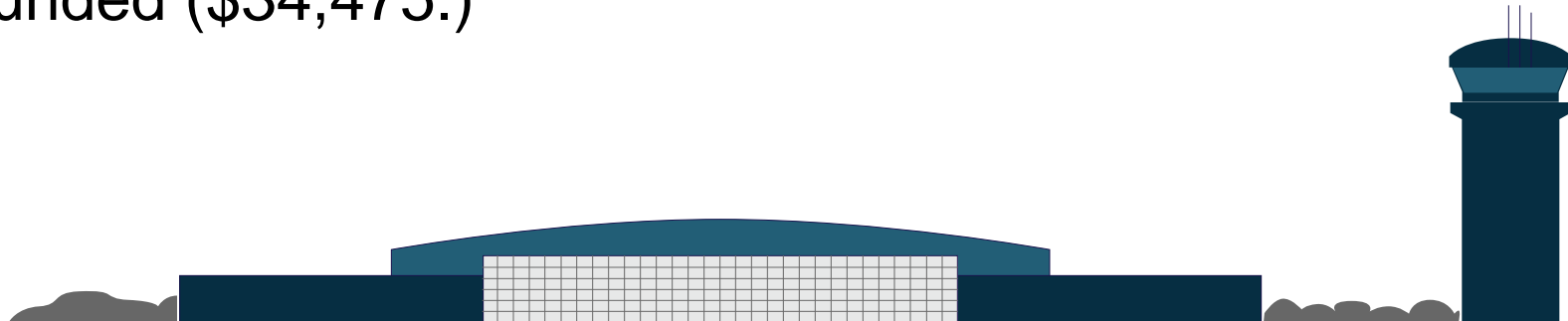
→ Funding: \$525,000 (estimate July 2022)

- 95% funded by FAA and MassDOT 5% Airport funded (\$ 25,250)



2023-121: Airport Security Camera Upgrades

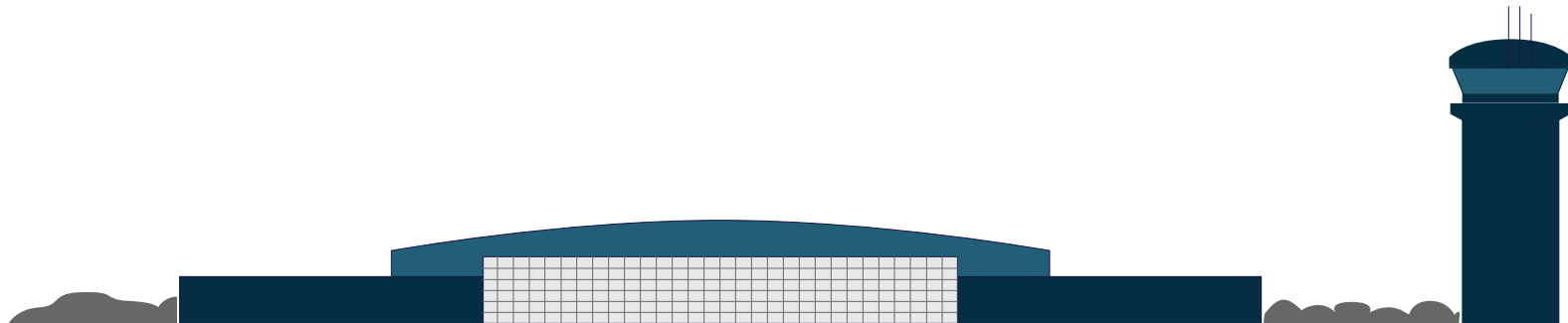
- Airport security equipment must be maintained regularly to protect airport staff and the traveling public
- This project is to replace 40 airport cameras in various locations throughout the airport.
- Replaces Analog with Digital cameras
- Funding: \$689,000 (estimate Oct. 2022)
 - 95% funded by FAA and MassDOT 5% Airport funded (\$34,475.)



2023-121: Airport Security Camera Upgrades (Cont.)

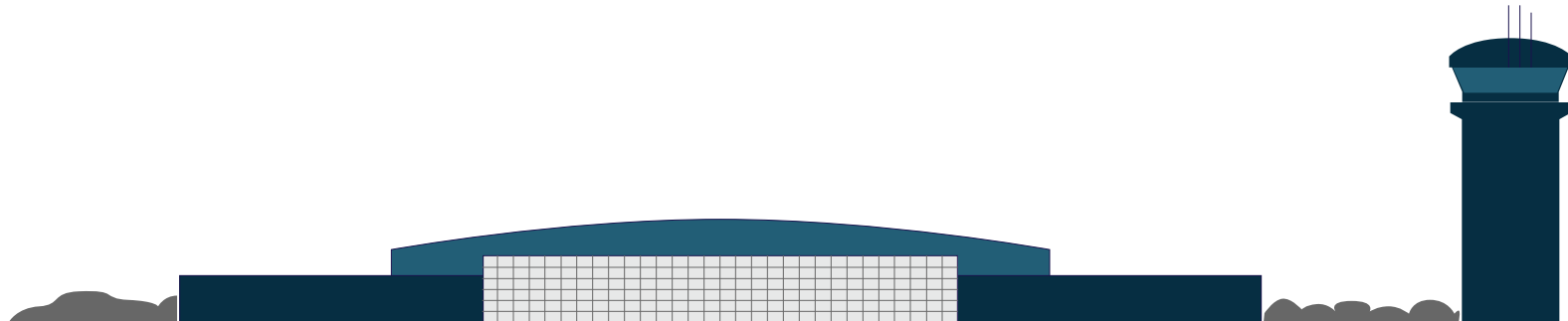


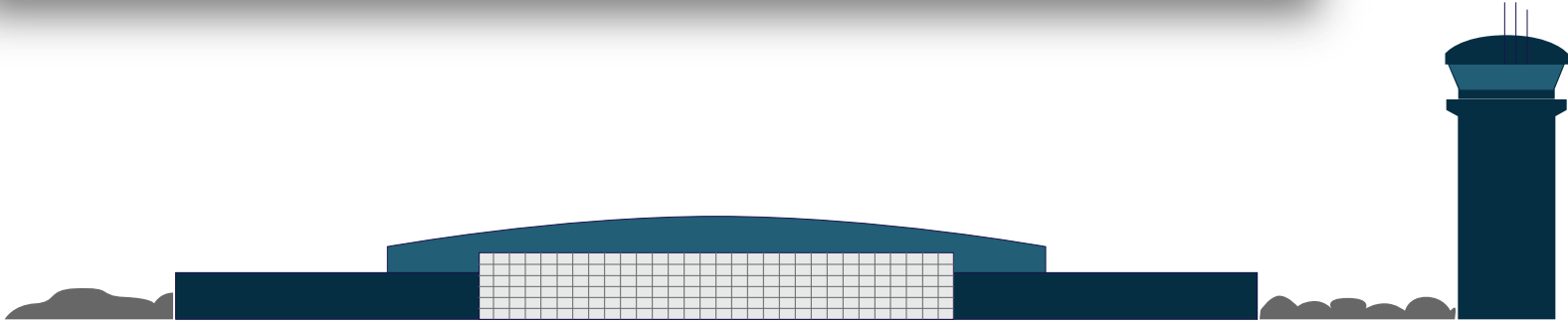
Digital (left) vs. Analog (right) Camera Quality



2023-122: Replace SRE Equipment 10-wheeler - Airport #47

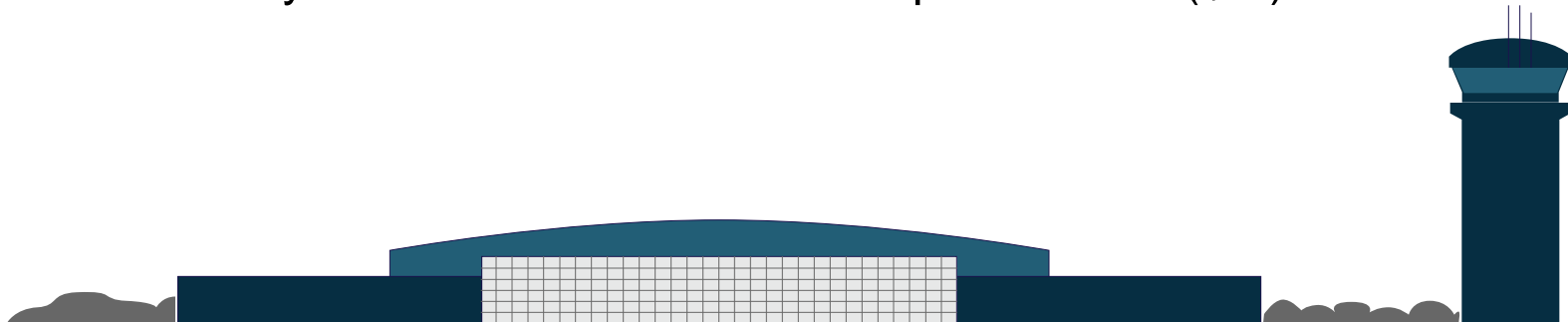
- Snow Removal Equipment (SRE) must be maintained regularly and replaced as necessary.
- This project is to replace circa 2006 SRE Equipment 10-wheeler with plow and sander)
- Funding: \$383,000 (estimate Oct. 2022)
 - 95% funded by FAA and MassDOT 5% Airport funded (\$19,150.)





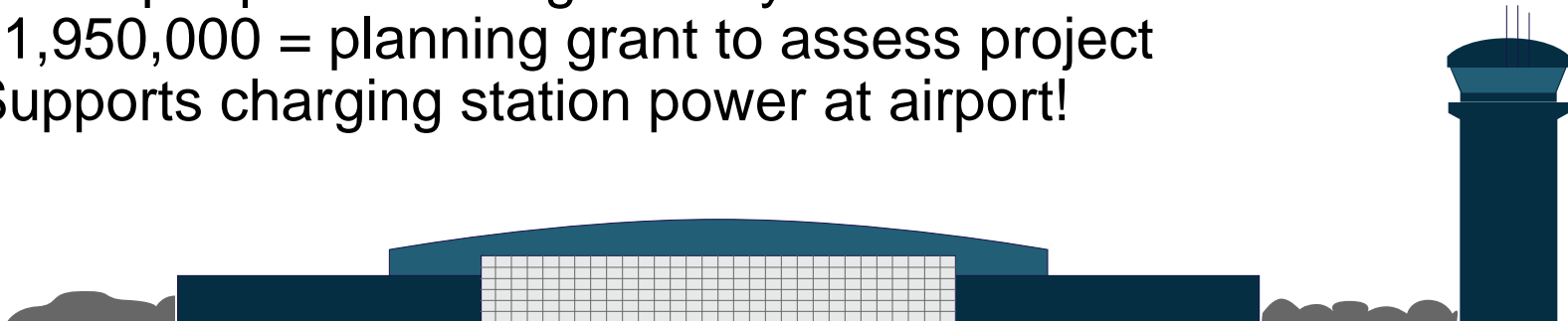
2023-123: SRE Equipment Storage Facility

- ➔ Maintenance of the 639 acre airport facility plus its 8 structures requires a lot of equipment and vehicles such as:
 - Snow removal equipment,
 - Mowing equipment,
 - Pavement maintenance equipment,
 - Operations and Maintenance vehicles,
 - Building supplies, and
 - Small tools and equipment.
- ➔ Not all of that equipment is stored in a covered shelter.
- ➔ Project is to develop a cold storage facility to house equipment that is currently stored outdoors.
- ➔ Funding: \$1,120,580 (estimate Oct. 2022)
 - 95% funded by FAA and MassDOT 5% Airport funded (\$0.)



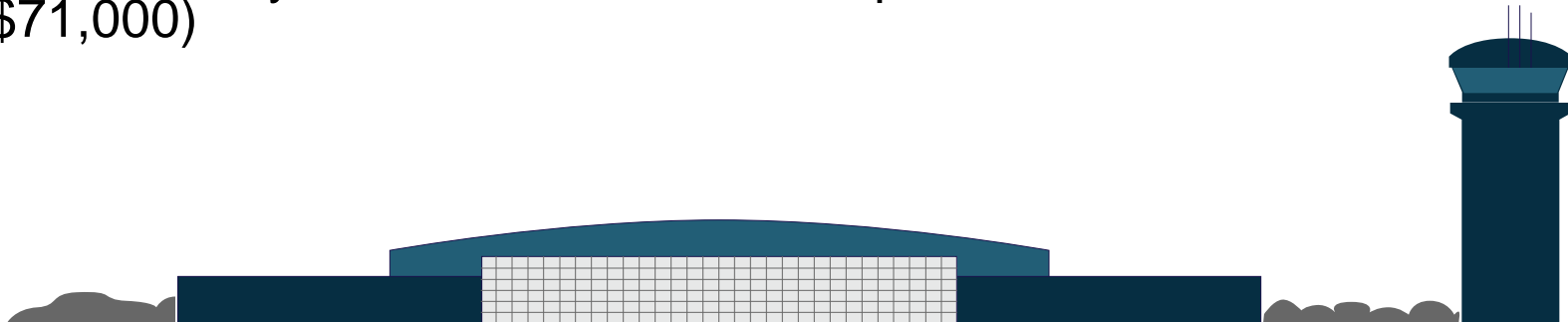
2023-124: Electric Aircraft Support Vehicle/Charging Station

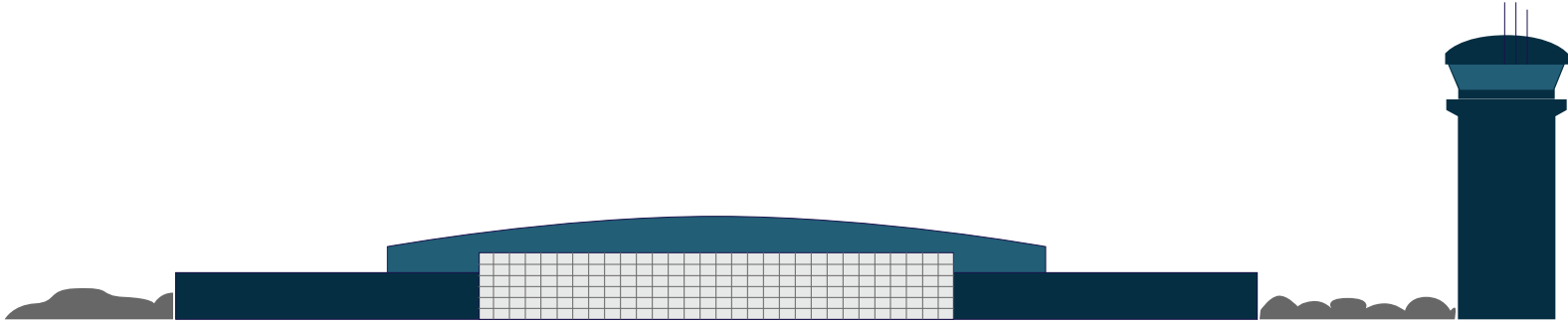
- Electric aviation = new but tenants/users are keen on transition to this form of “fuel”
- Airport looking at charging stations with dual use (aircraft and vehicles)
- Funding: \$505,000 (estimate Oct. 2022)
 - 95% funded by FAA and MassDOT 5% Airport funded (\$25,250)
- Additionally in 2023, we were *the only Airport to receive a U.S. DOT's SMART Program Grant to develop a Smart Microgrid*
 - We teamed with CCRTA to make this happen and to develop a power storage facility
 - \$1,950,000 = planning grant to assess project
 - Supports charging station power at airport!



2023-125: Jet A Fuel Storage Tank

- Previous slide = Airport is seeking to transition to an electric aviation program, (mainly for smaller piston driven aircraft fleets)
- Jet-A fuel users will continue to do so as the technology is not quite efficient for larger and heavier aircraft.
- Increases in fuel sales over past few years
- Current storage = 60K gallons
- Project = 1 additional 20K tank on existing farm/pad
- Pad meets DEP/EPA safety and spill containment criteria
- Funding: \$355,000 (estimate Oct. 2022)
 - 0% funded by FAA, MassDOT 80% Airport funded 20% (\$71,000)





Thank you!

