



State of New Hampshire Department of Transportation

Governor's Capital Budget Hearing

June 23, 2020

THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan Commissioner



June 23, 2020

His Excellency, Governor Christopher T. Sununu State House Concord, N.H. 03301

Re: Department of Transportation Capital Budget FY 2022-2023

Dear Governor Sununu and members of the Advisory Committee:

Thank you for the opportunity to address the Governor's Office regarding the New Hampshire Department of Transportation's (NHDOT) Capital Budget requests. This request includes two separate sections of NHDOT's capital improvement projects. There are three General Funded project requests for Aeronautics, Rail and Transit totaling \$1.7M enabling New Hampshire to leverage \$27.8M of Federal funds and ten Highway Funded project requests totaling \$12.7M for fiscal years 2022-2023.

In light of the COVID19 pandemic and the uncertainty around revenue, the Department included only items that we believe are essential to maintain service and provide the ability to leverage Federal funding. We have delayed advertising several projects from our approved FY2020-2021 Capital Budget until we have a better understanding of revenue projections and whether a Federal revenue backstop for Transportation will be approved by Congress and the President. This is prudent to ensure we are able to support future debt service requirements from the General and Highway Funds.

General Funded Project Requests

1. The first General Funded project is a continuation of an established program to support safety improvements and development of state airports that leverages federal funds for investments in local transportation systems. The Department is requesting \$1.2M in state appropriation to provide a five percent match, that when coupled with the local airport match, (five percent not included in this request) will leverage \$27.8M of federal funds. This request includes 30 Federal Aviation Administration (FAA) Airport Improvement Program (AIP) projects for planning and infrastructure improvements to 12 public-use airports, and for certain NHDOT airport system wide projects, including improvements to the New Hampshire Aircraft Rescue and Fire Fighting Training Facility located in Concord, NH as well as other studies. The FAA provides 90 percent of the funding for airport infrastructure projects as part of this program. Airports that participate in this program include, Manchester-Boston Regional

- Airport, Lebanon, Portsmouth International Airport at Pease, Laconia, Boire Field (Nashua), Dillant-Hopkins (Keene), Dean Memorial (North Haverhill), Skyhaven Airport (Rochester), Concord, Claremont, Mt. Washington Regional Airport (Whitefield), and Berlin.
- 2. The second General Funded project request will provide \$251,250 for the Transit Bus Replacement program that will leverage \$2.5M in Federal Transit Administration (FTA) funds. Without these state capital match funds, many transit projects would be delayed due to the inability to raise the required non-federal match on capital projects. This program provides matching funds for the acquisition of approximately 25 vehicles for non-profit agencies that provide transportation for seniors and individuals with disabilities and the acquisition of intermodal infrastructure that may include bicycle & pedestrian infrastructure improvements (including bicycle racks, passenger shelters, wayfinding signage, curb cuts for improved accessibility) for 10 local public transit systems (Manchester, Nashua, Dover-Portsmouth, Derry-Salem, Hanover-Lebanon, Concord, Claremont-Newport, Berlin-Lancaster-Littleton, Carroll County, and Keene). This request also includes funding for nonprofit agencies that provide transportation for elderly individuals and individuals with disabilities. Federal funds provide 80 percent of the capital needs and local funds provide 10 percent with the state capital match funds providing the remaining 10 percent. Public transportation provides access to jobs and critical services for New Hampshire residents, promoting economic development and mobility for all citizens. Requested funds will be used to match formula apportioned funds from the FTA grants program.
- 3. The third project request will provide \$300,000 for the replacement of the Department's aircraft registration program. The existing registration system was developed in 2001 and implemented in 2003. The registration software program has been used for almost 20-years since it was first developed and has been extended well beyond its useful life. The aviation registration program collects revenue to support airports and aviation programs in the State. The aviation registration system provides additional benefit to the Department than just the collection of revenue. Data collected as part of the registration process is used by the Department for various regulatory and compliance needs and to successfully plan for airport development programs. It is intended that the new software would be web based, streamline the registration process and allow for on-line payments utilizing credit cards.

Total estimated debt service on the \$1.7M in General Funded capital project requests utilizing twenty year duration general obligation bonds at a 60 percent principal payback in the first ten years at 5% interest will peak at approximately \$115,000 in State Fiscal Year 2024.

Highway Funded Project Requests

1. With respect to the Highway Funded projects, the highest priority of the ten projects is the request of \$1.2M for the Statewide Construction of salt and sand sheds. The department currently cannot store a season's worth of salt at all patrol shed locations and the sheds targeted for replacement are in poor to very poor condition, showing structural deterioration and requiring significant and frequent maintenance to maintain function and safety. The ability to store ample salt will save funds by being able to purchase materials and store them

when the best price is available. Environmental regulations also require that all salt be stored under cover.

- 2. NHDOT's second priority is the replacement of the Fuel Management System at a cost of \$5.0M. The NHDOT Fuel Distribution System is the strategic fuel reserve for all of NH State Government. The Department seeks to procure services to provide and install a new Fuel Management System (FMS) that would include equipment, operating system, database, and proprietary fuel management software, to replace current components of a 15-year-old Fuel Distribution System. The current system software vendor will discontinue maintenance and support in 2022 which would leave the State's system of 90 plus fuel sites vulnerable to breakdowns.
- 3. The third project listed is the replacement of the storage building in Lancaster for \$475,000. This project will replace an existing deteriorating wooden building with a new steel building to provide adequate and secure storage of materials and equipment.
- 4. The fourth proposed project is for replacement of the Londonderry patrol shed facility for \$3.4M. The existing Londonderry facility is undersized to meet level of service requirements especially given the I-93 Expansion project. The facility is not capable of storing current maintenance vehicles and does not meet modern building codes.
- 5. The fifth project will provide \$800,000 for Phase 2 of a work order system. The State of New Hampshire has invested tens of billions of dollars in transportation assets. In order to get the most out of this major investment, the DOT needs a modern and efficient means to track future, current and past maintenance efforts for assets such as bridges, culverts, signs, signals and guardrail. Transportation assets that are well maintained will last longer and will have improved safety and reliability during their useful lives. Phase 2 of the software will build on the benefits of Phase 1 and focus on technology enhancements, field mobility, and real time data availability.
- 6. The sixth priority project request will provide \$288,587 to replace the roof at the Twin Mountain garage facility. The project will replace the existing roof and add to the supporting structure to meet the current snow/ice loads. Energy efficiencies will be realized as a new roof will be better insulated.
- 7. The seventh project request will provide \$200,000 for design services for the replacement of the Pinkham patrol shed facility. The proposed project includes the design and permitting for a highway maintenance facility to replace the existing structure that is over 90 years old. The existing Pinkham highway maintenance facility is undersized for current operations and the current facility does not meet modern building codes.
- 8. The eighth project request will provide \$350,000 for design services for the replacement of the Milford patrol shed facility. The proposed project includes the design and permitting for a highway maintenance facility to replace the existing structure that is over 80 years old. The existing Milford highway maintenance facility is undersized for current operations and the current facility does not meet modern building codes.

- 9. The ninth project request will provide \$500,000 for design services for the replacement of the Lancaster garage facility. The existing structure was constructed in 1981. The layout of the building is obsolete, potentially unsafe, and lacking the ability to lift fleet units to effectuate repairs. The building size and ceiling height do not allow for tools and equipment that would provide additional safety and ergonomic benefits, as well as the increased capacity needs of the stockroom associated with an increasingly diversified fleet.
- 10. The tenth project continues a program established in prior capital budgets: the program to replace underground fuel storage tanks. The New Hampshire Department of Transportation currently has 40 fuel sites that have underground storage tanks and appurtenances that are 25 years or older and at or nearing their life expectancy. As the sites get beyond the life expectancy of the tanks and components, the potential for environmental damage, compliance and extensive repairs increases considerably. Prior Capital Improvement Projects (CIP) provided funding to bring many sites into environmental compliance; this CIP request continues that effort to replace the oldest and highest risk sites and to make structural improvements to sites near mid-life to prolong their life span and to minimize potential environmental issues. The Department would perform tank top upgrades and reconstruct as many fuel sites as allowed by the available funding request of \$500,000.

Total estimated debt service on the \$12.7M in Highway Funded project requests utilizing twenty year duration general obligation bonds at a 60 percent principal payback in the first ten years at 5% interest will peak at approximately \$846,000 in State Fiscal Year 2024. This debt service would be paid by the Highway Fund.

Thank you for your time and support of the Department's capital requests.

Sincerely,

Victoria F. Sheehan Commissioner

State of New Hampshire Department of Transportation Index of Project Requests

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STATE OF NEW HAMPSHIRE

CAPITAL IMPROVEMENT PROJECT REQUEST

FISCAL YEARS 2022-2023

	FORM 2A
	NAME
AGENCY	Department of Transportation
ACTIVITY / DIVISION	Division of Aeronautics, Rail & Transit

Priority	Project Name	Funding Source						
#	r Toject Name	General	Federal	Highway	Other	Total		
1	Federal and 5% State Match for Federal Aviation Administration Projects	1,172,772	27,758,695			28,931,467		
2	10% Match for Public Transit Bus Capital Projects	251,250				251,250		
3	Development of Aviation Management Software (Aircraft Registration Software)	300,000				300,000		
4						C		
5						C		
6						C		
7						C		
8						C		
9						C		
10						C		
11						C		
12						C		
13						C		
14						C		
15						(
	Totals - All Projects	1,724,022	27,758,695	0	0	29,482,717		
Name:	Victoria F. Sheehan	Title:	Commissioner		Date:	5/26/2020		

							FORM 1
STATE OF NEW HAMPSH	IRE		CODE		NAME		
APITAL IMPROVEMENT PROJECT RE	AGENCY	096	Department of	f Transportation			
SCAL YEARS 2022 - 2023		ACTIVITY / DIVISION	964010	Division of Ae	ronautics, Rail & Tr	ansit	
PRIORITY	# 1	PROJECT-TITLE / NAM	E	Federal and 5 Administratio	% State Match for F n Projects	ederal A	viation
			Meriple				
Capital Budget Reques		Related A	Annual Ope	rating Budget Ex	penditures / Saving	s Estim	ates
Site Acquisition (a)				-	Expenditures		Savin gs
Site Improvement / Preparation (b)		Permanent	t Personnel S	Services (a)		1 L	
Construction (c)	26,038,321	Other	Personnel S	Services (b)		1	
Utilities (d)			Current E	Expense (c)		1	
Architect / Engineering (e)			Eq	uipment (d)		1	
Computer Systems / Equipment (f)				Travel (e)		1	
Hardware				Other (f)		1 L	
Software		Total Expenditure	es / Savings	Estimates		JL	
Training		Accounting Unit:					
Service		Will these amounts b	e consistent	each yea r?			
Furnish / Equipment (g)							
Other (h)			Capital	Budget Criteria	(See Instructions)		
Total Capital Budget Request	28,931,467		Requ	irement Code:	A, B, C or D	В	
			D	efinition Code:	A, B, C, D, or X	С	
Other Information		Funding Percen	tages by Sou	ırce:	G, F, H, O	F	90.00
Total Square Footage:		G = General	F = Fed	deral	G, F, H, O	G	5.00
Estimated Useful Life:	20+ years	H = Highway	O = Oth	ner	G, F, H, O	0	
		An Information Technolog	gy Project m	ust be part of you	r IT Plan. Project #	\Rightarrow	
						F1 187	
	Pro	oject Justification (Be Cond	cise)				
The request will support the continued safety in airport improvement projects. The ratio of funds anticipated that funds from this project will be u Claremont, Mt. Washington, and Berlin. All projederal share be provided to match these funds the FAA's National Priority Rating system. Bas local, regional, and national funding priorities. Tappropriation bills. Statewide projects are completed and priority Rating System.	provements and development for each airport project is based at the following airports: Meets are solicited from the respin order to accept the FAA furded on anticipated short-term furthe funding level for the FAA's bleted by the Department, ther	t of airports within the state by sed upon 90% Federal Fundin fanchester, Lebanon, Portsmo pective sponsor as to need, ei nds. The airport's capital need unding provided by the FAA, the grant program is determined refore requires a 10% match (r providing the g, 5% state south, Laconia conomic feasts are evaluate projects to by the U.S.C. No local sha	share and a 5% loa. Nashua, Dean I sibility and FAA are ted through a per be funded in the congress and the re). Statewide pro	ical share (not include Memorial, Dillant-Hop and State priority. It is riodic master planning upcoming biennium President in authorizi sjects include matchir	ed in this okins, Sk required g process are iden ing legisl	request). It is yhaven, Concord that the entire no s and identified w tified using a mix ation and annual
Prelimir	a ry Plans: Attach a schema	tic and location sketch whe	n a pplicable	e on an 8-1/2" x 1	1" sheet.		
ontact Name: Patrick C. Herlihy, D	irector of Aeronautics, Rail an	d Transit			Telephone Nu	mber:	603-271-2449
ame: Victoria F. Sheehan	Commissione	. 7 - 0 -				Date:	4/29/2020

1. Why the project is necessary:

This request is for many airport infrastructure and safety projects. Please see attached for specific details.

2. What the project is replacing or adding on to:

This is a safety infrastructure program for many projects.

3. A brief description of what the project includes

Please see attached

4. Any back up information

Please see attached

Bureau of Aeronautics Capital Budget Request Information

This Capital Budget request will support the continued safety improvements and development of airports within the state by providing 5% of the required 10% match for the Federal Aviation Administration (FAA) Airport Improvement Projects (AIP) program. The ratio of funds for each airport project is based upon 90% Federal Funding, 5% state share and a 5% local share (not included in this request as these funds do not pass through NHDOT). It is anticipated that funds from this project will be used at the following federally eligible airports: Manchester, Lebanon, Portsmouth, Laconia, Nashua, Dean Memorial (Haverhill), Dillant-Hopkins (Keene), Skyhaven (Rochester), Concord, Claremont, Mt. Washington (Whitefield), and Berlin. All projects are solicited from the respective sponsor as to safety needs, economic feasibility, and FAA and State priorities. It is required that the entire non-federal share be provided in order to accept the FAA funds. The airports' capital needs are evaluated through a periodic master planning process and prioritized using the FAA's National Priority Rating system. Based on anticipated short-term funding provided by the FAA, the projects to be funded in the upcoming biennium are identified using a mix of local, regional, and national funding priorities. The funding level for the FAA's grant program is determined by the U.S. Congress and the President in authorizing legislation and annual appropriation bills. Statewide projects are completed by the Department, therefore these require a 10% match (no local share). Statewide projects include matching FAA funding for the New Hampshire Aircraft Rescue and Fire Fighting (ARFF) training facility, Concord, NH, as well as pavement condition and obstruction evaluation studies at NH's nine airports in the State Block Grant Program.

This request includes approximately 30 FAA AIP projects for planning and infrastructure improvements at 12 public-use airports, and for certain NHDOT airport system wide projects, including improvements to the New Hampshire Aircraft Rescue and Fire Fighting Training Facility located in Concord, NH, and other studies.

As stated above, each project listed is determined through an FAA Airport Master Planning process that is conducted to outline projects over a 20-year period. The Airport Master Planning Process is a public process to develop a Capital Improvement Program (CIP) for each individual airport. The projects are then programed in FAA's 5-year CIP. The projects are selected each year based upon safety needs, FAA priority, and funding capabilities. This funding is necessary to meet all mandated federal safety standards to operate a public-use airport.

Typical AIP projects included in this Capital Budget 2022/2023 request are as follows:

Runway Rehabilitation
Taxiway/Apron Rehabilitation
Airport Obstruction Removal/ Lighting
Land Acquisition/Easement Acquisition
Snow Removal Equipment Purchase
Master Planning and Environmental Studies
Statewide Airport Planning Projects
Airport Terminal Building Rehabilitation
Perimeter Safety/Security Fence
Airfield Pavement Maintenance

The chart below outlines the amount of funds programmed for each airport.

	2022	2022	2023	2023
Airport	Federal Share	State Share	Federal Share	State Share
State Airport System	\$135,000	\$15,000	\$600,000	\$66,667
Berlin Regional Airport	\$0	\$0	\$200,000	\$11,111
Skyhaven Airport (Rochester)	\$1,580,000	\$87,777	\$300,000	\$16,667
Claremont Airport	\$350,000	\$19,444	\$500,000	\$27,778
Concord Airport	\$150,000	\$8,333	\$150,000	\$8,333
Dillant-Hopkins Airport (Keene)	\$2,200,000	\$122,222	\$785,000	\$43,611
Laconia Airport	\$1,850,000	\$102,778	\$750,000	\$41,667
Mt. Washington Regional Airport	\$300,000	\$16,667	\$450,000	\$25,000
Boire Field (Nashua Airport)	\$5,679,000	\$315,500	\$500,000	\$27,779
Dean Memorial Airport (North Haverhill)	\$395,000	\$21,944	\$175,000	\$9,722
Portsmouth International Airport at Pease	\$5,409,000	\$300,500	\$16,560,000	\$920,000
Manchester-Boston Regional Airport	\$14,850,000	\$825,000	\$2,700,000	\$150,000
Lebanon	\$750,000	\$41,667	\$16,000,000	\$888,889
NH Fire Academy	\$0	\$0	\$300,000	\$33,333
Totals	\$33,648,000	\$1,876,832	\$39,970,000	\$2,270,557
Total Federal Share (2022-2023)	\$73,618,000			
Total State Share (2022-2023)	\$4,147,389			

Total Federal and State \$77,765,389 Before accounting for Funds available in previous AU's

Total Federal Share (2022-2023)	\$73,618,000	Total State Share (2022- 2023)	\$4,147,3
Minus Existing funds available after FY 2021 projects are granted	<u>-\$45,859,305</u>		<u>-\$2,974,61</u>
Total FY 2022/2023 Capital Budget Request	\$27,758,695		\$1,172,7

Total Federal and State

\$28,931,467

Outlined below are 5 major projects that are part of this request:

Concord Municipal Airport Terminal Area Study

This airport is the gateway to the capital city of New Hampshire playing host to political candidates and NASCAR race crews, headquarters for the New Hampshire State Police Aviation Unit, base for the New Hampshire Army Air National Guard, and home to many other small businesses that rely on aviation to thrive and succeed. The public-facing infrastructure at the airport is starting to show its age. In order to increase the utility, safety, and aesthetics of this infrastructure, the city of Concord has undertaken a phased approach that will evaluate improvement options and gather stakeholder feedback. After this study is complete later this year, the city will pursue FAA, State, and alternative funding sources and partnerships for subsequent terminal area construction projects. These construction phases are anticipated to occur starting in FY 2022. These improvements will also provide the city with a complement to their recently renovated downtown. The projects are not only planned to be functional but also be a draw to the community in a way that is more inviting and supportive of local businesses.



Manchester-Boston Regional Airport Runway Incursion Mitigation

The FAA has established a nationwide Runway Incursion Mitigation (RIM) Program. The program is designed to ameliorate problematic airfield geometry (a.k.a., "Hot Spots") which are airfield decision points with a history of runway incursions. Projects identified in the RIM Program are FAA's highest safety priority and need to be completed as soon as possible. FAA has identified Manchester-Boston Regional Airport as needing mitigation through the RIM Program. Manchester-Boston regional Airport completed a study in 2016 that identified two RIM areas, or "Hot Spots." The airport will continue to address the last remaining Hot Spot in FY2022 reconstructing these airfield pavements to be less problematic. The images below depict the area of concern.



Figure 2: Manchester-Boston Regional Airport's Hot Spot #1 on the north end of Taxiway H.

Portsmouth International Airport at Pease Terminal Building Improvements Projects

In 2017, the airport received a grant to evaluate the passenger terminal facility needs to address the exponential growth in passenger counts since the Great Recession of 2008. The Pease Development Authority is taking a phased approach to implementing the recommended terminal building and automobile parking lot improvements to ensure all improvements are tied to passenger demand thresholds with the most critical deficiencies addressed first. Initial improvements to the 1950's vintage terminal building will improve passenger flows and queuing needs at ticketing and security checkpoints for efficient and customer-friendly passenger processing. The intermediate term improvements will occur during this budget cycle and will focus on expanding terminal building passenger areas including ticketing, passenger waiting rooms, passenger security screening checkpoints, and baggage screening; additional surface automobile parking lots are planned in the intermediate term as well. In the long term, the terminal building will be expanded to match passenger levels and security requirements; it's possible that an automobile parking garage may be needed in the long term.



Figure 3: Portsmouth International Airport at Pease's existing passenger terminal building.

Nashua Airport- Boire Field Parallel Taxiway Project

Taxiway A at Nashua Airport – Boire Field is approximately 6,790'x40' and parallel to the single, Runway 14-32. It is a required airfield asset that allows aircraft to safely carryout taxiing maneuvers getting to and from the runway without needing to travel on the runway until it is necessary. Understanding that this airport has limited capacity to accommodate future aviation growth, in 2012, the airport relocated the runway 150' to the east which would allow for a future relocation of Taxiway A and a future increase in revenue-generating development space for hangars and aircraft tie-downs. This 2012 runway project provided a mill and overlay of Taxiway A as a pavement life-extension effort until project funding could be attained. Taxiway A was last reconstructed in 1991 and has exceeded its anticipated useful life. The reconstruction/relocation of Taxiway A has been on the airport's CIP for over a decade having been delayed due to other funding priorities at the airport and elsewhere in the NH aviation system.

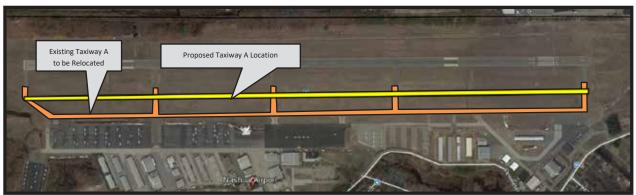


Figure 5: Boire Field's proposed parallel taxiway.

Berlin Regional Airport Terminal Apron Rehabilitation Project

In 1999, the terminal aircraft parking apron at Berlin Regional Airport was reconstructed to provide a safe, stable surface for aircraft to park, get fuel, and enplane/deplane passengers. Over the years, the city of Berlin has performed periodic maintenance to this pavement but it was only expected to last 20 years. Now having outlived is expected performance life, this apron is in need of rehabilitation that will restore its surface and drainage system to last another 20 years. This airport regularly sees presidential candidates fly in to make campaign appearances in the North Country as well as numerous corporate and personal flights for business and pleasure, respectively. At 5,200 feet long, Berlin's runway is the longest runway in NH north of the Lakes Region, making this airport very attractive for economic development in the region and all the more reason that the aircraft parking apron be rehabilitated to like-new condition in support of future business development.



Name: Victoria F. Sheehan

							FORM 1
STATE OF NEW HAM	PSHIR	E		CODE	NAM	E	
APITAL IMPROVEMENT PROJEC	T REQUES	T	AGENCY	096	Department of Transportation		
SCAL YEARS 2022 - 2023	_		ACTIVITY / DIVISION	964010	Division of Aeronautics, Rail 8	Transit	
PRIOF	RITY#	2	PROJECT-TITLE / NAM	E	Public Transit Bus & Facility M	latching F	unds
				34,72	Martin State of the State of th	IT-12	1 T 2 1 1 C
Capital Budget R	equest		Related A	nnual Oper	rating Budget Expenditures / Sav	ings Estim	ates
Site Acquisition (a)					Expenditures		Savings
Site Improvement / Preparation (b)		Permanent	Personnel S	Services (a)			
Construct	ion (c)	-	Other	Personnel S	Services (b)		
Utilit	ies (d)	1		Current E	Expense (c)		
Architect / Engineeri	ing (e)			Eq	uipment (d)		
Computer Systems / Equipm	ent (f)	20			Travel (e)		
Hardware		TO THE REAL PROPERTY.	1		Other (f)		
Software			Total Expenditure	s / Savings	Estimates		
Training			Accounting Unit:				
Service			Will these amounts be	consistent	each year?		
Furnish / Equipme	ent (g)	251,250		F 3 - 11			
Oth	her (h)	13		Capital	Budget Criteria (See Instructions	s)	
Total Capital Budget Request 251,250				Requ	uirement Code: A, B, C or D	В	
			1		Definition Code: A, B, C, D, or X	С	N. W. Lillian
Other Informa	tion		Funding Percent	ages by Sou	urce: G, F, H, C		
Total Square Fo	otage:		G = General	F = Fed	deral G, F, H, C	G	100.0
Estimated Usefu	ul Life: 7-1	0 years	H = Highway	O = Oti	her G, F, H, C)	
			An Information Technolog	y Project m	ust be part of your IT Plan. Project	# ⇔	
				The Marie			
		Pro	ect Justification (Be Conc	ise)			
This request provides matching funds for of intermodal that may include bicycle & plocal public transit systems, state-owned systems (Manchester, Nashua, Dover-Po-Federal funds provide at least 80% of the (whichever is lesser) and local funds will preplacements and facility improvements the economic development and mobility for all programs including FTA Section 5339 Caprojects would be delayed due to the inab Accounting Unit 2916; Public Transportatiocal matching funds for urban transit systintermodal infrastructure. This project will	pedestrian infi bus terminal ortsmouth, De capital needs provide the re- hat might not I citizens, Re- apital Bus & E villity to raise the tion, Class 07 stems are not	rastructure improvement repairs and improvement required match otherwise be available. Quested funds will be used as Facility Program functioner required non-federal required non-federal urbain the DOT Operating B	is (including bicycle racks, pasts, and capital expenses for stanon, Concord, Claremont-New dabove. The requested State. State participation enables to Public transportation provides ed to match formula apportion ds and FTA Section 5307 Urb match on capital projects. Fundan transit systems receive feduaget. This request includes a	senger shei atewide tran wport, Berlii Capital mat- ansit provid access to joe ed funds an anized Area ding for rura eral funds di	Iters, wayfinding signage, curbouts of a sit technology solutions that could be in-Lancaster-Littleton. Carroll County on will provide no more than 10% or ers to leverage Federal capital funds obs and critical services for New Hall discretionary funds from the Federal Promula Program funds. Without stall transit systems is included in the literatly from the Federal Transit Admi	for improved be used by a strong of the rest of the re	d accessibility) for all 10 public transite). equired match d vehicle sidents, promoting Administration gra all match many transiting Budget GL and these federal a
	oliminani Di	ana. Attach	ile and legation state when	annllanti	5 on on 9 1/2" v 14" obset		
TOTAL STATE OF THE		ans: Attach a schemat of Aeronautics. Rail and	ic and location sketch wher	applicable	on an 8-1/2" x 11" sheet. Telephone		603-271-2449

Date:

4/29/2020

Commissioner

1. Why the project is necessary:

Federal funds provide at least 80% of the capital needs for eligible transit capital projects and the requested State Capital match will provide no more than 10% or ½ of the required match (whichever is less) and local funds will provide the remaining required match. State participation enables transit providers to leverage Federal capital funds for needed vehicle replacements and facility improvements that might not otherwise be available. Public transportation provides access to jobs and critical lifeline services for New Hampshire residents, promoting economic development and mobility for all citizens. Requested funds will be used to match formula apportioned funds and discretionary funds from the Federal Transit Administration grants programs including FTA Section 5339 Capital Bus & Bus Facilities Program funds and FTA Section 5310 Enhanced Mobility of Seniors & Individuals with Disabilities Formula Program funds. Without State Capital match, many transit projects would be delayed due to the inability to raise the required non-federal match on capital projects, which would only serve to increase the ongoing vehicle maintenance costs and perhaps impact, and degrade, the quality of transit services provided to the NH public.

2. What the project is replacing or adding on to:

The project will provide funding, to match Federal and local funds, to replace approximately 25 vehicles (primarily for Section 5310 Enhanced Mobility of Seniors & Individuals with Disabilities), miscellaneous intermodal infrastructure, and technological enhancements such as Automated Vehicle Location (AVL) systems and statewide transit software. These capital items would enhance the transportation network, maintain vehicles in a state of good repair, and help to ensure that intermodal infrastructure upgrades and improvements are considered.

3. A brief description of what the project includes

This request provides matching funds for: (1) the acquisition of approximately 25 vehicles for non-profit agencies that provide transportation for seniors and individuals with disabilities; and (2) the acquisition of intermodal infrastructure that may include bicycle & pedestrian infrastructure improvements (including bicycle racks, passenger shelters, wayfinding signage, curb cuts for improved accessibility) for 10 local public transit systems, state-owned bus terminal repairs and improvements, and capital expenses for statewide transit technology solutions that could be used by all 10 public transit systems (Manchester, Nashua, Dover-Portsmouth, Derry-Salem, Hanover-Lebanon, Concord, Claremont-Newport, Berlin-Lancaster-Littleton, Carroll County, and Keene).

4. Any back up information

Photos are attached to illustrate condition of vehicles to be replaced.

2022-2023 NHDOT Transit Capital Budget Request (Examples of Vehicle Conditions)









2022-2023 NHDOT Transit Capital Budget Request (Examples of Vehicle Conditions)









				-				FORM 1A
STATE OF NEV	W HAMPSHI	RE		CODE		NAME		
CAPITAL IMPROVEMEN	NT PROJECT REQU	EST	AGENCY	096	Department of	Department of Transportation		
FISCAL YEARS 2022 - 2023			ACTIVITY / DIVISION	964010		onautics Rail &Tran		
						of Aviation Managen	ent Sof	ftware (Aircraft
	PRIORITY #	3	PROJECT-TITLE / NAM	E	Registration Se	oftware)		
				415				
Ca	Capital Budget Request				erating Budget Exp	penditures / Savings	Estima	ites
	Site Acquisition (a)					Expenditures		Savings
Site Improve	ment / Preparation (b)		Permaner	t Personnel	Services (a)		↓ ⊢	
	Construction (c)		Othe	r Personnel	Services (b)		1	
	Utilities (d)			Current	Expense (c)		↓ ∟	
Arch	nitect / Engineering (e)			E	quipment (d)			
Computer Sy	stems / Equipment (f)	300,000			Travel (e)		1 L	
Hardware					Other (f)			
Software	300,000		Total Expenditur	es / Saving	s Estimates		J L	
Training			Accounting Unit:				_	
Service			Will these amounts to	oe consisten	t each year?			
F	urnish / Equipment (g)			-1-				
	Other (h)			Capita	I Budget Criteria	(See Instructions)		
Total Cap	pital Budget Request	300,000		Rec	quirement Code:	A, B, C or D	В	
					Definition Code:	A, B, C, D, or X	D	
	Other Information	-	Funding Percen	tages by So	urce:	G, F, H, O	F	%
	Total Square Footage:	100	G = General	F = Fe	deral	G, F, H, O	G	100.00%
	Estimated Useful Life:	20 years	H = Highway	0 = 01	ther	G, F, H, O	0	%
			An Information Technolo	gy Project m	nust be part of your	IT Plan. Project #	⇒	SR-2020-19-0
			State in the S	11/25	254 11 15	V = 0 1 50 1		
Development of Aviation M	Management software (Air		pject Justification (Be Cond ance with New Hampshire st		Chapter 422 and C	code of Administrative	Rules C	Chapter Tra 900, all
aircraft owned by New Har or physically located in Ne system was developed in 2 useful life, During the 2018 legislation fee changed the	mpshire residents and/or w Hampshire. The Depar 2001 and implemented in 8 legislative session, SB- e fee methodology to weig acement. This aircraft reg	businesses must be register tment also collects a fee for 2003. The registration soft 565 was passed and signed tht based rate structure with	red annually with the Bureau of and issues registration to Colored ware program has been used by the Governor, changing the associated fees. Due to the ent will also make paying by colored associated.	of Aeronaution ommercial A for almost 2 e fee methound of useful	cs regardless of wh viation Operators (C 20-years since is wa dology to register al life of the software	ether the aircraft is in CAO) and aircraft dea as first developed and ircraft in the state (RS and the Legislative fe	n flyable of alers. The d is at the SA 422:3 ee structu	condition or is based e existing registration e end of its 20 year B1). The 2018 ure change, the
	Prelimina	ry Plans: Attach a schemat	tic and location sketch whe	n applicabl	e on an 8-1/2" x 11	1" sheet.		
Contact Name:	Patrick C. Herlihy, Dire	ctor of Aeronautics, Rail and	Transit			Telephone Nu	mber:	603-271-2449
Name: Victoria F. Sheeha	an	Commissioner	Vura Filh	~			Date:	4/29/2020

1. Why the project is necessary:

In accordance with New Hampshire statutes RSA Chapter 422 and Code of Administrative Rules Chapter Tra 900, all aircraft owned by New Hampshire residents and/or businesses must be registered annually with the Bureau of Aeronautics regardless of whether the aircraft is in flyable condition or is based or physically located in New Hampshire. The Bureau also registers Commercial Aviation Operators (Aviation Businesses at Airports), Aircraft Dealers and Airports. The aviation registration programs collect revenue to the state to support NH airports. The multiple registrations managed by the Bureau provide the necessary information and data to successfully manage the State Airways System (RSA 422:9).

2. What the project is replacing or adding on to:

The project will replace the Department's current aircraft registration program. The existing registration system was developed in 2001 and implemented in 2003. The registration software program has been used for almost 20-years since it was first developed and is at the end of its 20-year useful life.

3. A brief description of what the project includes:

The Development of Aviation Registration Management software for Aircraft Registration, Commercial Aviation Operators and Aircraft Dealers.

The aviation registration program collects revenue for the state to support airports and aviation programs in the State. The aviation registration provides additional benefit to the Department than just the collection of revenue. Data collected as part of the registration process is used by the Department for various regulatory needs and compliance and to successfully plan for airport development programs.

During the registration process, the aircraft owner designates an airport for the aircraft to be based and advises the Department of that location for the purposes of providing funding for the open-to-the public airports. The Bureau uses the based aircraft information to determine federal and state airport planning (airport master planning), development and funding for the airports. Based aircraft information is also used during airport inspections to update the FAA 5010 form (Airport Master Record) that provides the data and safety information for airports registered with the FAA. The data in this registration system is used to conduct compliance inspections at airports.

In the event of an aircraft accident or incident, the aircraft information collected during the registration process is used as part of the accident investigation, as well as determining whether that aircraft is in compliance with the State law.

4. Any back up information

During the 2018 legislative session, SB-565 was passed and signed by the Governor, changing the fee methodology to register aircraft in the state (RSA 422:31). The 2018 legislation changed the fee methodology to a weight based rate structure with associated fees. In an effort to attract more aircraft/businesses to the state, this change reduced the registration fees from approximately \$1M to \$400k. The registration program provides \$250K for the airports, based on a formula and where the aircraft are based. The remaining revenue collected is deposited into the general fund, approximately \$150K.

Due to the end of useful life of the software and the Legislative fee structure change, the software is in need of replacement. This aircraft registration software replacement will also make paying by credit card available and will be more interactive for the public. This project will have no effect on the State's utility consumption.

3

STATE OF NEW HAMPSHIRE

CAPITAL IMPROVEMENT PROJECT REQUEST

FISCAL YEARS 2022-2023

Name: Victoria Sheehan

	FORM 2A
	NAME
AGENCY	NH DEPARTMENT OF TRANSPORTATION
ACTIVITY / DIVISION	Operations

Priority	Project Name	Funding Source								
#	Project Name		Federal	Highway	Other	Total				
1	Statewide - Construct Salt Sheds			1,200,000		1,200,000				
2	Fuel Management System Replacement			5,000,000		5,000,000				
3	Bridge Maintenance - Lancaster 701 Storage Building			475,000		475,000				
4	Londonderry 512 - Replacement Patrol Shed Facility			3,370,000		3,370,000				
5	Work Order System Phase 2			800,000		800,000				
6	Mechanical Services - Twin Mtn Satellite Garage Roof Replacement			288,587		288,587				
7	Pinkham 109 - Replacement Patrol Shed Facility (Design)			200,000		200,000				
8	Milford 510 - Replacement Patrol Shed Facility (Design)			350,000		350,000				
9	Mechanical Services - Lancaster New Satellite Garage (Design)			500,000		500,000				
10	Statewide - Underground Fuel Tank Replacement			500,000		500,000				
11						0				
12						0				
13						0				
14						0				
15						0				
	Totals - All Projects	0	0	12,683,587	0	12,683,587				

Title: Commissioner

5/26/2020

Date:

Name: Victoria Sheehan

TATE OF NE	W HAMDCHID	E						FORM 1
	W HAMPSHIR			CODE		NAME		
	ENT PROJECT REQUE	AGENCY	096	New Hampsh	ire Department of Ti	ransporta	tion	
ISCAL YEARS 2022 - 20			ACTIVITY / DIVISION	960515		ntenance - Statewide		
	PRIORITY #	1	PROJECT-TITLE / NAM	E	Statewide - C	onstruct Salt and Sa	and Shed	S
all to the second		THE PLANE					Win	
Cap	oital Budget Request	Related A	Annual Ope	rating Budget E	xpenditures / Saving	s Estima		
	Site Acquisition (a)				-	Expenditures	-	Savings
Site Improven	nent / Preparation (b)	150,000	Permanent	Personnel :	Services (a)		-	
	Construction (c)	950,000	Other	Personnel	Services (b)		4 1	
	Utilities (d)		64	Current I	Expense (c)			
Archi	tect / Engineering (e)	100,000		Eq	uipment (d)		-	
Computer Sys	stems / Equipment (f)				Travel (e)			
Hardware					Other (f)			
Software			Total Expenditure	es / Savi ngs	Estimates			
Training	7.5		Accounting Unit:					
Service			Will these amounts b	e consistent	each year?			
Fu	rnish / Equipment (g)			WE BEEN			A 12.5	
	Other (h)	6		Capital	Budget Criteria	(See Instructions)		
Total Capi	ital Budget Request	1,200,000		Req	uirement Code:	A, B, C or D	В	
					Definition Code:	A, B, C, D, or X	A	
	Other Information		Funding Percen	tages by So	urce:	G, F, H, O	Н	100.
Т	otal Square Footage:	Varies	G = General	F = Fe	deral	G, F, H, O		
E	stimated Useful Life:	25	H = Highway	O = Ot	her	G, F, H, O		
			An Information Technolo	gy Project m	ust be part of you	ır IT Plan. Project#	\Rightarrow	
Carried Co.							1	I have
		Pr	oject Justification (Be Cond	cise)				
quiring temporary structi	ural repairs. Ability to store a also require that all salt be s	mple amount of mater	salt and sand at all patrol sher rial will save funds due to bein roject includes design and con	g able to pur	rchase materials	and store them when	the best p	rice is available
	D1:- I DI	A44b	tic and location sketch whe	n annlinch!	a an an 9 4/2"	11" about		

Commissioner

4/29/2020

Date:

1. Why the project is necessary:

The department currently cannot store a season's worth of salt at all patrol shed locations and some sheds are reaching the end of their useful life, requiring significant maintenance to maintain function and safety. The ability to store ample salt will save funds by being able to purchase materials and store them when the best price is available. Environmental regulations also require that all salt be stored under cover.

The department's high arch gambrel design allows delivery of salt to generally occur within the shed due to high door opening, limiting the potential environmental impacts from salt operations. We are continuing to look at other styles of salt sheds and fabric structures to construct right size structures for each site.

2. What the project is replacing or adding on to:

The project will construct new stand-alone salt buildings at different patrol shed locations throughout the state. In most situations the existing buildings will be demolished to accommodate the new structures, however in some locations the existing structure may remain depending on site layout and condition of the structure.

3. A brief description of what the project includes

The project will include construction of stand-alone salt buildings (4,000 sf to 11,500 sf) with lean-too cold storage, sand storage and/or spreader rack bays on either side as additional alternates within the bidding process. The project will design and construct as many salt sheds as allowed by available funding while generally keeping with the following priority list:

- 1) D6 North Hampton (612) Shed is 32 years old, is under capacity and is structural deficient, in very poor condition.
- 2) D1 Lincoln (115) Shed is 37 years old, has a current capacity of 1650 tons. Annual usage is around 4380 tons. Showing structural deterioration, beginning to lean.
- 3) D2 Lempster (215) Shed is 39 years old, has a current capacity of 1400 tons, with an annual usage of 1700 tons. Shed is in deteriorated condition, needing frequent repair and heavy maintenance.
- 4) D5 Londonderry (512)– Shed is 66 years old and in deteriorating condition, and aged design exposes the salt product to the elements.
- 5) D3 Belmont (314) Shed is 28 years old and current capacity is 2500 tons. Annual usage is around 2900 tons per year. Replacement is critical to maintain function due to an aging building that is starting to have structural issues.
- 6) D5 Warner (526) Shed is 19 years old and current capacity is 3000 tons. Annual usage is around 4700 tons per year.
- 7) D4 Chesterfield (405A) Shed is 44 years old and in very poor condition, current capacity is only 150 tons. This minimal capacity requires frequent restock in winter conditions.

4. Any back up information

Most recent bid results have shown total construction costs up to \$120 per sf for the departments standard High Arch Gambrel Salt building. Based on these numbers we would estimate anywhere from \$410,000 to \$960,000 for construction depending on the location, size of the building, and addition of side storage buildings.



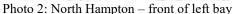




Photo 3: North Hampton - Wall and post rot



Photo 4: Lincoln (115) – Salt Shed and Loading Ramp



Photo 5: Lincoln (115) – Salt Shed internal structure



Photo 6: Lempster (215) – Salt Shed deteriorated condition



Photo 7: Londonderry (512) – Salt Shed



Photo 8: Belmont (314) – Salt Shed Entrance

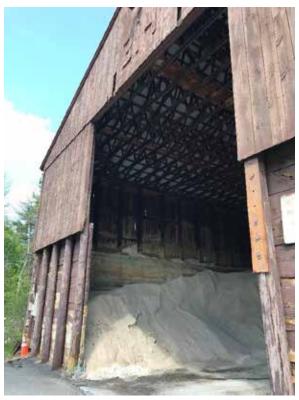


Photo 9: Belmont (314)- Deteriorated wall condition



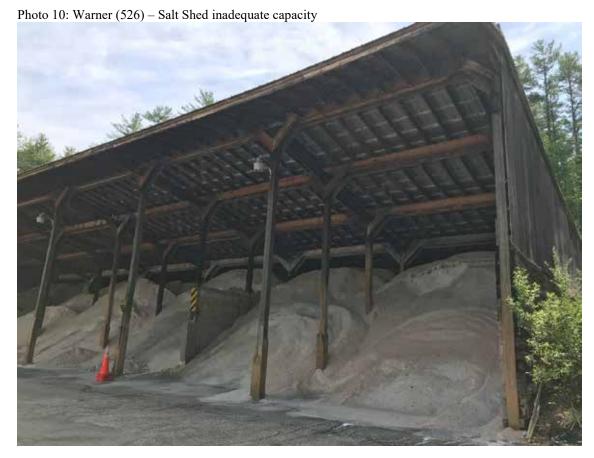




Photo 12: Chesterfield (405A) –



Contact Name:

Name: Victoria Sheehan

								FORM 1A
STATE OF NEV	W HAMPSHIRE			CODE		NAME		
CAPITAL IMPROVEMEN	AGENCY	096	New Hampshire	e Department of Tr	ansporta	ation		
ISCAL YEARS 2022 - 2023			ACTIVITY / DIVISION	960515	Division of Ope	rations - Fuel Distr	ibution	
	PRIORITY #	2	PROJECT-TITLE / NAME		Fuel Manageme	ent System Replace	ement	
		7 7 7 7 7					92-63	THE STATE OF THE S
Ca	pital Budget Request		Related	Annual Ope	rating Budget Exp	enditures / Saving	s Estima	tes
	Site Acquisition (a)					Expenditures		Savings
Site Improve	ment / Preparation (b)		Permanen	t Personnel	Services (a)			
	Construction (c)		Othe	r Personnel	Services (b)			
	Utilities (d)			Current	Expense (c)			
Arch	nitect / Engineering (e)		iii a	E	quipment (d)			
Computer Sy	stems / Equipment (f)	5,000,000			Travel (e)			
Hardware	3,500,000		H.		Other (f)		1	
Software	1,000,000		Total Expenditure	es / Saving:	Estimates			
Training	250,000		Accounting Unit:					
Service	250,000		Will these amounts b	e consisten	t each year?			
Fu	urnish / Equipment (g)							
	Other (h)			Capita	l Budget Criteria (See Instructions)		
Total Car	pital Budget Request	5,000,000		Rec	quirement Code:	A, B, C or D	В	
					Definition Code:	A, B, C, D, or X	С	
	Other Information		Funding Percen			G, F, H, O	Н	100.00%
	Total Square Footage:		G = General	F = Fe		G, F, H, O	\vdash	0,
	Estimated Useful Life:	20	H = Highway	0 = 01		G, F, H, O		0)
			An Information Technolog	gy Project m	ust be part of your	IT Plan. Project #	\Rightarrow	SR-2019-56
			STATE OF STREET				Same of the same o	
			roject Justification (Be Cond	,				
he Statewide Fuel Distribution	on System's computerized fuel	management system	(FMS), originally supplied by coming to an end on 30 June 2	Orpak USA,	which is now Gilbar	co/Gasboy is slated	to be sur	nset in 2022. The
urrent FIVIS target discontinu	uance nappens to coincide with	office operations. The	e fuel distribution system norm	ally sees 4.5	to 5 million gallons	of throughput per ve	ear, which	h requires a stable
ustem to manage and maint	ain those volumes. Any disruc	tion in the system will	be problematic after discontin	uance since	the State owns the	data, but not the op	erating sy	ystem/application.
Vhere this is proprietary soft	ware and hardware we will be	nard-pressed to deal v	with any major breakdowns in t	he system.	This request is to	supply a FMS, to inc	lude equi	ipment at all fuel
ites for the continuing mission	on of Fuel Distribution. This pr	oject will decrease the	e State's utility consumption.					
	Profinction of Di	no. Attack a sabarra	atic and location abatabba	n annlicable	a on an 8.4/2" v 44	" shoot		
	Caleb Dobbins - State Mainte	7-2 -51	atic and location sketch whe	applicable	Uli ali o-1/2 X II	Telephone Nu		271-2693

4/29/2020

Date:

Caleb Dobbins - State Maintenance Engineer

Commissioner

1. Why the project is necessary:

The NHDOT Fuel Distribution System is the strategic fuel reserve for all of NH State Government.

The Statewide Fuel Distribution System's computerized fuel management system (FMS), originally supplied by Orpak USA, which is now Gilbarco/Gasboy is slated to be sunset by the company in the next few years. The target sunset date is 2022. The current FMS target discontinuance happens to coincide with the current contract coming to an end on June 30, 2022. The discontinuance will end all support, software and hardware, for the current system of 90 plus fuel sites statewide and the head office operations.

The fuel distribution system normally sees 4.5 to 5 million gallons of throughput per year, which requires a stable system to manage and maintain those volumes. Any disruption in the system will be problematic after discontinuance since the State owns the data, but not the operating system/application. Where this is proprietary software and hardware we will be hard-pressed to deal with any major breakdowns in the system.

2. What the project is replacing or adding on to:

This request is for the purpose of upgrading and updating the Department's computer software based Fuel Management System, and to include supplying new equipment at all fuel sites for the continuing mission of Fuel Distribution.

3. A brief description of what the project includes

The Department of Transportation seeks to procure services to provide and install a new Fuel Management System (FMS) that would include hardware, operating system, database, and proprietary fuel management software, to replace current components of a 15-year-old Fuel Distribution System.

The vendor will be responsible for all aspects of the project, including, but not limited to: design, development, installation, implementation, testing, training, and support of the automated Fuel Management System. Work includes site preparation and installation of fuel control terminals, modification, and configuration of tank level sensing equipment, and services to include software customization for the automated Fuel Management System and the development of new inbound and outbound interfaces with other State applications (DOT Data Warehouse).

The current existing Fuel Distribution System consists of hardware, software, fuel tanks, tank level sensing equipment, fuel pumps and piping, fuel control terminals, modems, and a central computer system running proprietary software that will no longer be supported due to the current vendor's intention of sun setting the application and hardware in 2022.

4. Any back up information

						FORM 1
STATE OF NEW HAMPSHIRE		CODE		NAME		
CAPITAL IMPROVEMENT PROJECT REQUEST	AGENCY	096	Department of	of Transportation		
FISCAL YEARS 2022-2023	ACTIVITY / DIVISION	960515	Division of Operations - Bridge Maintenance			ince
PRIORITY # 3	PROJECT-TITLE / NAME	AME Lancaster 701 - Storage Building Replacement				ement
		- 14 X.				
Capital Budget Request	Related Ar	nual Ope	rating Budget E	xpenditures / Saving	s Estim	ates
Site Acquisition (a)				Expenditures	_	Savings
Site Improvement / Preparation (b) 20,000	Permanent F	Personnel S	Services (a)			
Construction (c) 375,000	Other F	Personnel S	Services (b)			
Utilities (d) 5,000		Current 6	Expense (c)			
Architect / Engineering (e) 75,000		Eq	uipment (d)			
Computer Systems / Equipment (f)			Travel (e)			
Hardware			Other (f)			
Software	Total Expenditures	/ Savi ngs	Estimates		J L	
Training	Accounting Unit:					
Service	Will these amounts be	consistent	each year?			
Furnish / Equipment (g)					3011 30	
Other (h)		Capital	Budget Criteria	(See Instructions)		
Total Capital Budget Request 475,000		,	uirement Code:	A, B, C or D	В	
			Definition Code:	A, B, C, D, or X	А	
Other Information	Funding Percenta			G, F, H, O	F	%
Total Square Footage: 1,800	G = General	F = Fe		G, F, H, O	Н	100.00%
Estimated Useful Life: 50 years	H = Highway	O = Ot		G, F, H, O	0	%
	An Information Technology	Project m	ust be part of yo	ur IT Plan. Project #	⇒	1 - 1 - 1 - 1 - 1
					- 4 -	
	ject Justification (Be Conci	,				
Remove existing 1800 SF wooden building used for storage of materials and and materials. The current building and slab are in poor condition and will rec	equipment and replace it with	1800 SF st	teel building on s	lab with overhead doo	rs for st	orage of equipment
improvements will be sited on the existing state property and the new building	will be safer for the crew to us	se and mak	ke it easier to loa	d and unload material	s, as we	Il as provide for
storage of equipment out of the weather. This project will increase the State						
Prelim inary Plans: Attach a schemat	ic and location sketch when	a nnli cahl	e on an 8-1/2" v	11" sheet		
Contact Name: Steve Johnson - Administrator Bridge Maintenance		аррпсарі	c on an o-nz x	Telephone Nu	mber:	603-271-3667
A					Date:	4/29/2020

1. Project Need:

The wooden building that the Lancaster Bridge Maintenance Crew (701) uses for cold storage of their materials and some equipment has been in a deteriorated state for a number of years and has not been repaired due to the time and funds that would be diverted from the crew's bridge maintenance responsibilities. One sidewall of the building is in very poor shape due to age and deterioration. The foundation slab is broken into several sections and heaves such that it jams the sliding doors used to access the garage bay portion of the building. The crew is presently not allowed to store anything in the attic area due to safety concerns. The roof has been repaired at various times to stop leakage. The building is a former patrol shed and the inside is cut up into several rooms that are not conducive to easy movements of materials beyond the garage bays. The need for repairs, especially to the one sidewall of the building, foundation slab, and doors cannot be delayed much longer. Even with repairs, the useful life of the building is limited.

2. What the project is replacing or adding to:

This project proposes to remove the $50' \times 35'$ existing wooden building and its foundation slab and replace it with a $30' \times 60'$ steel building on a concrete slab.

3. A brief description of what the project includes:

The project will include the demolition of the existing building and the construction of a new foundation, slab, and pre-engineered steel building. The building will have lockable overhead doors for secure storage of materials and equipment. The space inside the building will be much more conducive for material storage and will allow smaller equipment such as air compressors and Bobcat attachments to be stored out of the weather. The estimated cost of removal of the existing building is \$20,000 based off of Berlin 12598G costs and the estimated cost of the new building, construction, and utility hookup is \$455,000. The total cost is estimated to be \$475,000.

4. Supporting documentation: Attached are pictures showing the existing wooden building and an example of the proposed replacement building.



Figure 1: Front View of Building



Figure 2: Sidewall in Poor Shape



Figure 3: Close up of Sidewall (Exterior)



Figure 4: Inside of Sidewall



Figure 5: Interior view of area that jams sliding door



Figure 6: Concrete floor

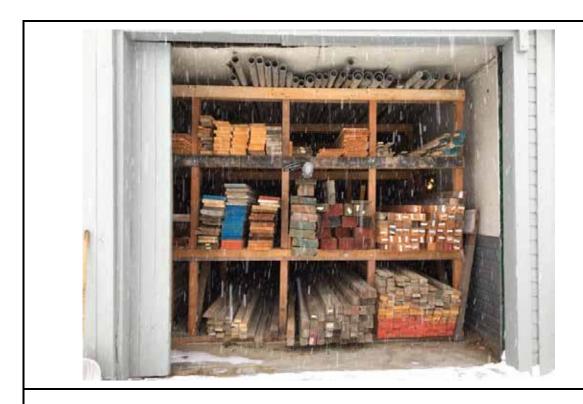
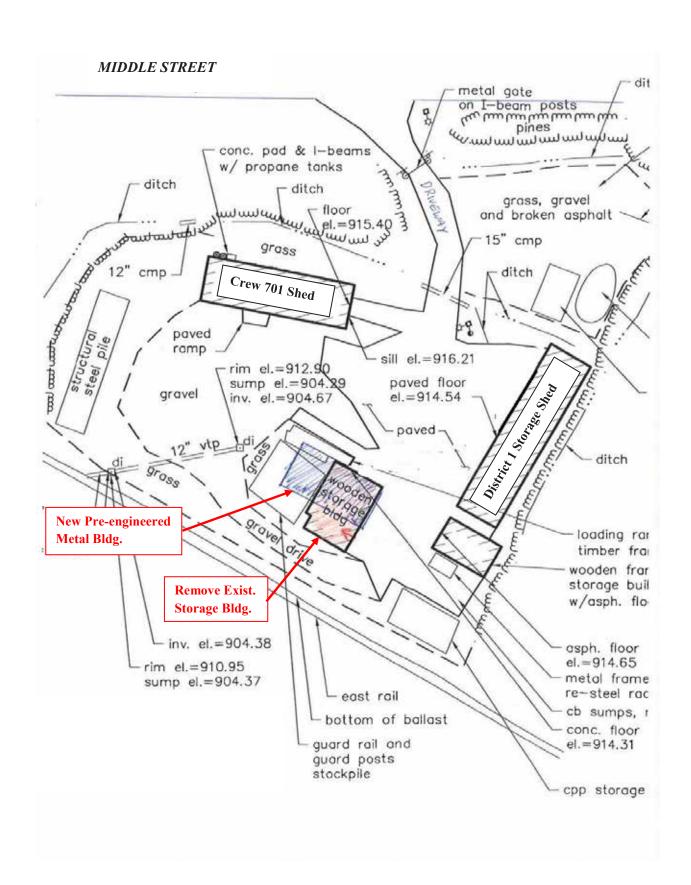


Figure 7: Material Storage



Figure 8: Representative of what is proposed for Lancaster Bridge Maintenance building



FORM 1A STATE OF NEW HAMPSHIRE CODE NAME CAPITAL IMPROVEMENT PROJECT REQUEST 096 New Hampshire Department of Transportation **AGENCY** 960515 FISCAL YEARS 2022-2023 ACTIVITY / DIVISION Highway Maintenance District 5 Londonderry 512 - Patrol Shed Replacement PRIORITY # 4 PROJECT-TITLE / NAME

	Capital Budget Request			
	Site Acquisition (a)			
500,000	Site Improvement / Preparation (b)			
2,400,000	Construction (c)			
100,000	Utilities (d)			
350,000	Architect / Engineering (e)			
10,000	Computer Systems / Equipment (f)			
	Hardware			
	Software			
	Training			
	Service			
10,000	Furnish / Equipment (g)			
	Other (h)			
3,370,000	Total Capital Budget Request			
	HOUSE PROPERTY.			
	Other Information			
8,000	Total Square Footage:			
50	Estimated Useful Life:			

	Expenditures	Savings
Permanent Personnel Services (a)		
Other Personnel Services (b)		
Current Expense (c)		
Equipment (d)		
Travel (e)		
Other (f)		
Total Expenditures / Savings Estimates		
Accounting Unit:		
Will these amounts be consistent each year?		

Capital Budget Criteria (See Instructions) В Requirement Code: A. B. C or D Α Definition Code: A, B, C, D, or X 100.00% Funding Percentages by Source: G. F. H. O F = Federal G, F, H, O % G = General G. F. H. O % H = Highway O = OtherAn Information Technology Project must be part of your IT Plan. Project

Project Justification (Be Concise)

Construct replacement District 5 Highway Maintenance Patrol Section PS512 facility in Londonderry. Current facility is undersized to meet level of service requirements. Current facility is not capable of storing maintenance vehicles. Current facility does not meet current building codes, is considered obsolete and potentially unsafe. The new facility can be sited on the existing land. This project will increase the State's utility Consumption.

Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

Contact Name: Richard Radwanski - District 5 Engineer Telephone Number: 666-3336

Name: Victoria Sheehan Date: 4/29/2020

The existing PS512 Londonderry facility is undersized to meet level of service requirements especially given the I-93 Expansion project. The current facility is not capable of storing current maintenance vehicles. The current facility does not meet modern building codes, is obsolete, and unsafe for State employees. The proposed new facility can be sited on the existing property. Utility and computer system upgrades are included

2. What the project is replacing or adding on to:

This project will construct a new right-sized facility that will include crew quarters, bathrooms, foremen office, and vehicle storage bays for trucks. The crew currently includes 5 full-time NH DOT District 5 employees which are supplemented for winter maintenance by up to 1 temporary NH DOT borrowed employee, and up to 8 hired trucks with an operator. The current facility is too small to allow for crew members to take a break without using space not intended for that purpose (includes foreman office and bathroom). The current facility has one bathroom which is not adequate for the regular crew size, and especially in the winter. Currently the foreman uses a portion of the crew quarters as an office which is not secure or conducive for employee relations.

The facility roof was leaking on the southern exposure side. This was remedied by a roof repair by a statewide contractor by placing a rubber membrane over the entire roof. This temporary repair completed in 2018 and with a possible design life of up to 5-years.

In the winter, 2 plow trucks can be stored inside without plow equipment. The facility is scheduled to add an employee and another truck to the patrol section which will have to be stored outside and any borrowed retained truck also stored outside. Trucks equipped with dry rock salt pre-wet systems can freeze-up when stored outside. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment.

3. A brief description of what the project includes:

The project will include an 80-ft. by 100-ft. building that meets current building code requirements. Architectural/engineering analyses will define the building dimensions and utility accommodations (water, sewer, broadband cable, natural gas) similar to recent replacement NH DOT Highway Maintenance Facilities.

No spreader storage buildings, or fuel dispensing improvement are currently proposed.

4. Any back up information

Attached are recent photographs of the existing facility for reference.



PS512 Londonderry Perspective View Looking East and West



PS512 Londonderry Salt Shed



PS512 Londonderry Interior View of Bays for 2 State Trucks with no plow equipment



PS512 Londonderry Interior View of Tractor Bay with wood burning furnace



PS512 Londonderry Interior View Crew Quarters with Oil Burning Furnace



PS512 Londonderry Interior View Crew Quarters with Foreman's Office

								FORM 1A
STATE OF NEV	V HAMPSHIRE			CODE		NAME		
CAPITAL IMPROVEMEN	T PROJECT REQUEST		AGENCY	096	New Hampshi	re Department of Tra	ansport	ation
FISCAL YEARS 2022 - 2023	<u></u>		ACTIVITY / DIVISION 960015 Executive Office					
	PRIORITY #	5	PROJECT-TITLE / NAME		NHDOT Work	Order System Phase	2	
					V	1 - N - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 7	
Car	oital Budget Request		Related A	Annual Ope	rating Budget Ex	penditures / Savings	Estima	ates
5.21	Site Acquisition (a)					Expenditures		Savings
Site Improver	nent / Preparation (b)		Permanent	Personnel:	Services (a)		1 [
One improve	Construction (c)	144	Other	Personnel :	Services (b)		1 [
	Utilities (d)				Expense (c)			
Arch	itect / Engineering (e)				juipment (d)			
	stems / Equipment (f)	800,000			Travel (e)			
Hardware	300,000				Other (f)			
Software	250,000		Total Expenditure	s / Savings	Estimates			
Training			Accounting Unit:					
Service	250,000		Will these amounts b	e consistent	each year?			
Fu	rnish / Equipment (g)	3						
	Other (h)			Capital	Budget Criteria	(See Instructions)		
Total Cap	ital Budget Request	800,000		Red	uirement Code:	A, B, C or D	В	
					Definition Code:	$A,\ B,\ C,\ D,\ or\ X$	D	
	Other Information	0.7	Funding Percent	ages by Sol	urce:	G, F, H, O	Н	100.00%
	otal Square Footage:		G = General	F = Fed	deral	G, F, H, O		%
E	Estimated Useful Life:	E :	H = Highway	O = Ot	her	G, F, H, O		%
			An Information Technolog	y Project m	ust be part of you	r IT Plan. Project #	⇔	SR-2020-7
e Tropic - Park						STATES ASSESSED.		
			oject Justification (Be Conc					
means to track future, curr maintained will last longer a • Providing mobile devices • Providing additional contr	ent, and past maintenance eff and will have improved safety and connectivity across the D acted resources to assist with	orts for assets such as and reliability during the epartment's 100+ pern implementation of the	ation assets. In order to get the stridges, culverts, and guardrieir useful lives. Phase 2 of the nanent field locations to enable system. In real-time systems and preparations to be systemed in the systems and preparations.	ail. Similar t software w easy and e	o a well maintaine ill build-on the ben fficient access to t	ed car, transportation a nefits of Phase 1 and fi the system.	ssets th	nat are well :
Contact Name:	Jeff Harpring					Telephone Nu	mber:	271-1620
Name: Victoria F. Sheeha	n Jan FALL	Commissione	r				Date:	4/29/2020

a. The State of New Hampshire has invested tens of billions of dollars in transportation assets. In order to get the most out of this major investment the DOT needs a modern and efficient means to track future, current and past maintenance efforts for assets such as bridges, culverts and guardrail. Similar to a well-maintained car, transportation assets that are well maintained will last longer and will have improved safety and reliability during their useful lives. Phase two of the software will build-on the benefits of Phase 1 and focus on technology enhancements, field mobility, and real time data availability.

2. What the project is replacing or adding on to:

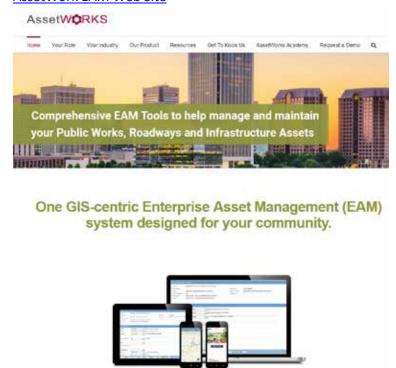
- a. It is a continuation of the Work Order, Fleet and Inventory (WOFI) system Contract # 7002910, Project # 42294
- b. WOFI is replacing legacy systems including MATS, CIMS, HEI, M5 and a variety of additional Access and Excel inventory and work effort tracking methods.

3. A brief description of what the project includes

- a. Provide Mobile devices and connectivity across the Department's 100+ permanent field locations to enable easy and efficient access to the system
- b. Provide additional contracted resources to assist with the implementation of the system
- c. Enhanced integration with a real-time data hub enabling deeper integration with real-time systems and preparing for future integrations.

4. Any back up information (include pictures or any other information that tells your story)

a. AssetWork EAM Web Site



			12				FORM 1A
STATE OF NEW HAMPSHIR	E		CODE		NAME		
CAPITAL IMPROVEMENT PROJECT REQUE	CAPITAL IMPROVEMENT PROJECT REQUEST		096	New Hamps	nire Department of Tr	ansport	tation
FISCAL YEARS 2022 - 2023		ACTIVITY / DIVISION	Division of C	perations - Mechanic	al Serv	ices	
PRIORITY #	6	PROJECT-TITLE / NAM	E	Twin Mounta	in MS Satellite Garag	je Roof	Replacement
				THE T	VIEW BERNES	3-73	
Capital Budget Request		Related A	nnual Ope	rating Budget E	xpenditures / Saving	s Estim	ates
Site Acquisition (a)					Expenditures		Savings
Site Improvement / Preparation (b)		Permanent	Personnel S	Services (a)			
Construction (c)	250,614	Other	Personnel S	Services (b)		1	
Utilities (d)			Current {	Expense (c)			
Architect / Engineering (e)	32,314		Eq	uipment (d)		<u> </u>	
Computer Systems / Equipment (f)	15			Travel (e)		1	
Hardware				Other (f)		1	
Software		Total Expenditure	s / Savin gs	Estimates		J L	
Training		Accounting Unit:				-	-
Service	1.15	Will these amounts be	e consistent	each year?			
Furnish / Equipment (g)			III - E III				
Other (h)	5,659		Capital	Budget Criteria	a (See Instructions)		
Total Capital Budget Request	288,587		Requ	uirement Code:	A, B, C or D	Α	
				Definition Code:	A, B, C, D, or X	С	
Other Information		Funding Percent	tages by Soi	urce:	G, F, H, O	Н	100.00%
Total Square Footage:	6,120	G = General	F = Fed	deral	G, F, H, O		%
Estimated Useful Life:	25	H = Highway	O = Ot	her	G, F, H, O		%
		An Information Technolog	y Project m	ust be part of yo	ur IT Plan. Project #	⇒	
TA . HA STORY OF STREET							

The existing structure was built in 1969 and the aluminum roof was designed with 2" of insulation. This design depends on heat loss to melt any accumulated snow/ice to reduce weight. This is extremely dangerous as snow and ice slides off in sheets. The sheets have caused damage to the building and is a serious safety issue. The new roof will add to the supporting structure to support the snow / ice load. Energy efficiencies will be realized as a new roof will be better insulated. This project will decrease the State's utility consumption.

	Prelimin	ary Plans: Attach a schematic and location sketch when appli	cable on an 8-1/2" x 11" sheet.	
Contact Name:	Bill Dusavitch - Mech	nanical Services Bureau Administrator	Telephone Number:	271-3721
Name: Victoria Sheehan	Vieta F	Commissioner	Date:	4/29/2020

The existing structure was constructed in 1969. The existing aluminum roof was designed with 2" of insulation. This design depends on heat loss to melt any accumulated snow/ice to reduce weight and is extremely dangerous as snow and ice slides off in sheets. The snow and ice sheet have caused damage to the building and is a serious safety issue. Energy efficiencies will be realized as a new roof will be better insulated.

2. What the project is replacing or adding on to:

The project will replace the existing roof and add to the supporting structure to support a snow/ice load.

3. A brief description of what the project includes

The project will include design & construction of a new roofing system at the Twin Mountain satellite garage building (approx. 6,120 sf).

4. Any back up information

Estimated costs were obtained via Public Works:

"...Regarding the metal roof, this can be tricky because it depends on the condition/capacity of the roof framing and whether you are installing a whole system (i.e., including insulation) or just the metal. We recently installed an insulated metal panel roofing system at the Men's Prison and it came in at \$37.50/SF. This is on the high side because it involves work within the prison so the cost is inflated to account for the difficulties of working behind the walls. So, I would say that a whole metal roofing system, including insulation, would be around \$30/sf, installed. Just the metal roofing, no insulation, would be around \$20/sf, installed..." \sim Michelle Juliano

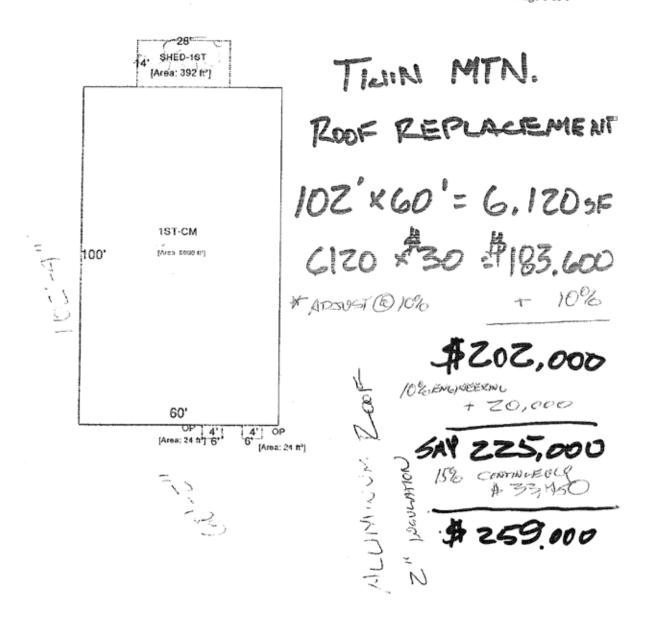
"If you add 10% to your 2018 request (5% per year for inflation from 2018 to 2020), that should give you a conservative number for your new request. Thanks for reaching out" ~Michelle Juliano 2/12/2020

Project estimate total: \$259,000





Page 1 of 1



*10% CAME FROM DAS. POBLIL WORKS

https://www.axisgis.com/node/axisapi/document-view/CarrollNH?path=Docs/Batch/Buildi., 2/22/2018

Twin Mountain Satellite Garage

						FORM 1A	
STATE OF NEW HAMPSHIRE		CODE		NAME			
CAPITAL IMPROVEMENT PROJECT REQUEST	AGENCY	096	New Hampsh	ire Department of Tr	ansporta	tion	
FISCAL YEARS 2022-2023	ACTIVITY / DIVISION	960515	Highway Mair	ntenance District 1	strict 1		
PRIORITY # 7	PROJECT-TITLE / NAME		Pinkham 109	- Patrol Shed Replac	ement (D	(Design)	
					. 3		
Capital Budget Request	Related	Annual Ope	rating Budget Ex	xpenditures / Saving	s Estimat	es	
Site Acquisition (a)		· ·		Expenditures		Savings	
Site Improvement / Preparation (b)	Permanen	t Personnel	Services (a)		7 [
Construction (c)	Othe	r Personnel	Services (b)				
Utilities (d)		Current	Expense (c)				
Architect / Engineering (e) 200,000		Ed	quipment (d)				
Computer Systems / Equipment (f)			Travel (e)				
Hardware			Other (f)				
Software	Total Expenditure	es / Savings	Estimates				
Training	Accounting Unit:						
Service	Will these amounts b	e consistent	t each year?				
Furnish / Equipment (g)		A) E					
Other (h)		Capita	Budget Criteria	(See Instructions)			
Total Capital Budget Request 200,000		Red	quirement Code:	A, B, C or D	В		
			Definition Code:	A, B, C, D, or X	Α		
Other Information	Funding Percent	tages by Sou	urce:	G, F, H, O	Н	100.00%	
Total Square Footage: 5,000	G = General	F = Fed	derai	G, F, H, O		%	
Estimated Useful Life: 50	H = Highway	O = Ot	her	G, F, H, O		%	
	An Information Technolog	gy Project m	ust be part of you	ır IT Plan. Project #	⇒		
			Contract Contract	Per la		DELLE A DESCRIPTION	
	oject Justification (Be Conc						
Request is for design services for new District 1 Highway Maintenance Patrol S	Section PS109 facility in Pinkha	am. Current	facility is undersi	ized to meet level of se	ervice requ	uirements. Current	
facilty is not energy efficient, does not meet current building codes, is structural be demolished. This project will have no effect on the State's utility consumption		sare. The ne	ew facility can be s	sited on the existing la	na ana ex	isting structure will	
be demonstred. This project will have no effect on the state's utility consumption	,						
>							
Preliminary Plans: Attach a schema	tic and location sketch whe	n a pplicable	on an 8-1/2" x 1			700 4044	
Contact Name: Philip Beaulieu - District 1 Engineer				Telephone Nu	ımber:	788-4641	
Name: Victoria Sheehan	r				Date:	4/29/2020	

The proposed project includes the design and permitting for a highway maintenance facility to replace the existing structure that is over 90 years old. The existing PS109 – Pinkham highway maintenance facility is undersized for current operations. In addition, the current facility does not meet modern building codes, electrical codes, or mechanical codes. This makes the facility a possible risk to life and safety for the state employees that occupy the building.

The existing structure is too small to safely and efficiently accommodate the highway maintenance vehicles and equipment that are needed to meet the current level of service in this area. A new facility could be sited on the property and be designed to improve the safety and efficiency of highway maintenance operations as well as to allow for utility, energy conservation and computer system upgrades.

2. What the project is replacing or adding on to:

This existing facility is over 90-years old and is under 3,000 square feet with very limited crew quarters in the current configuration. The current facility is too small to accommodate crew members to take safety breaks during winter storms and does not provide adequate office space for the foreman, which is not conducive for employee relations. The existing wastewater disposal system is currently in failure and needs to be replaced.

In the winter, trucks outfitted with plows and salt spreaders barely fit into the garage area and when they are in the garage they restrict worker circulation within the building. Currently, there are two trucks at this facility, and one truck must be parked outside in the weather when it is outfitted with the head plow. The tight space with equipment in the garage is a safety concern and increases the potential for accidents when taking equipment in or out of the building. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment.

3. A brief description of what the project includes

This project includes the design and permitting for a new structure that will be right-sized and approximately 5,000 square feet in size. This project will include architectural design of the new facility as well as structural and civil site plans. Architectural and engineering analyses will be needed to define the building dimensions, layout and utility accommodations.

We envision the new facility will be designed to meet all modern code requirements and include a crew quarters, restrooms, foreman office and adequate space for storage of vehicles, equipment, tools and supplies that are kept onsite.

Over recent years, the facility has received a new fueling station, salt storage shed and spreader storage building and therefore the project will not include provisions for these aspects.

4. Any back up information (include pictures or any other information that tells your story)



Photo-1: Front view of existing patrol shed. Garage doors are in need of replacement and are undersized to safely accommodate the vehicles and equipment.



Photo-2: Rear view of existing patrol shed. Siding and building trim in need of replacement. Also, shed end of roof is too low for building extension to increase storage or headroom inside the building.



Photo-3: View of the front of truck with plow equipment mounted and parked in shed. Minimal clearances and uneven surfaces throughout the building make it difficult to navigate and increase risk of accidents and injuries.

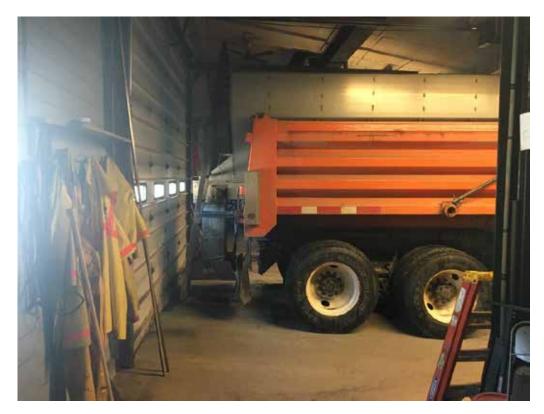


Photo-4: View of the rear of truck with plow equipment mounted and parked in shed.

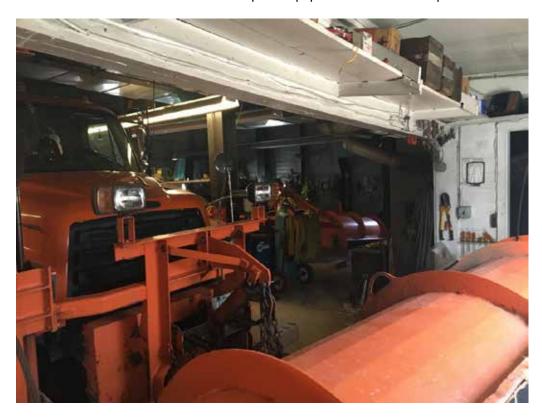


Photo-5: View of inadequate headspace over parked vehicle.

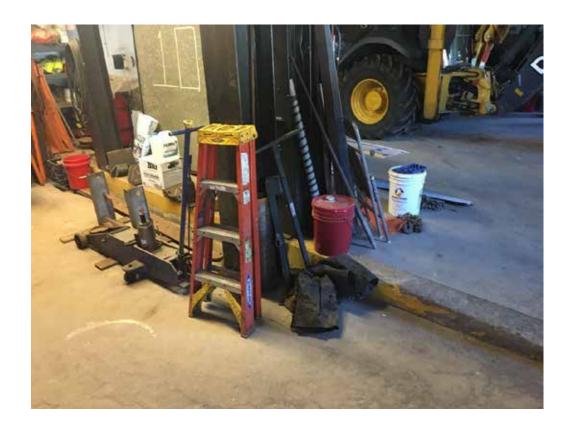


Photo-6: View of uneven surfaces and lack of adequate storage areas make it difficult to navigate through the building safely.

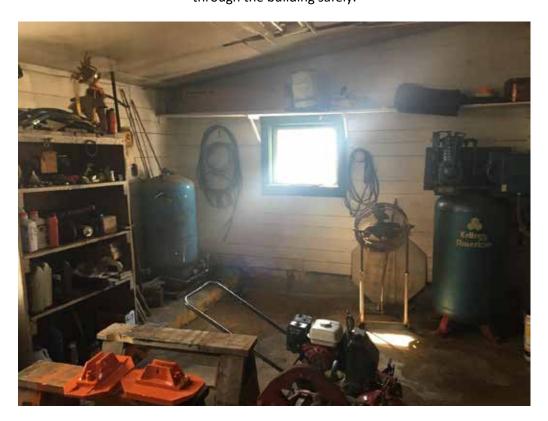


Photo-7: View of inadequate storage area for tools and supplies.

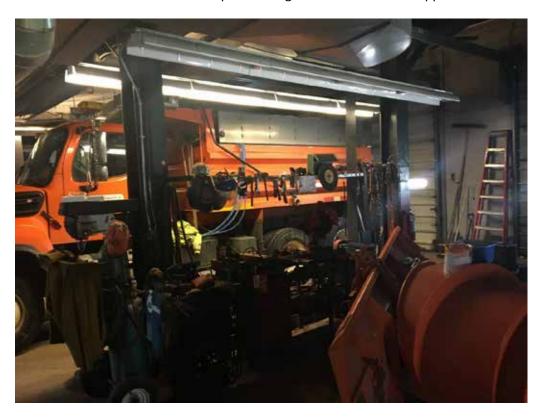


Photo-8: View of inadequate storage area for tools and supplies.



Photo-9: View of outdated and deteriorating plumbing equipment.



Photo-10: View of significant deterioration where portions of the original structure are exposed.



Photo-11: View of entrance into crew quarters / office / restroom area.



Photo-12: View of crew quarters / Office space and electrical breaker room.



Photo-13: View of existing restroom that is non-functional due to failed septic system.

Contact Name:

Name: Victoria Sheehan

FORM 1A STATE OF NEW HAMPSHIRE CODE NAME CAPITAL IMPROVEMENT PROJECT REQUEST 096 **AGENCY** New Hampshire Department of Transportation ACTIVITY / DIVISION 960515 FISCAL YEARS 2022-2023 Highway Maintenance District 5 PRIORITY # 8 PROJECT-TITLE / NAME Milford 510 - Patrol Shed Replacement (Design) Related Annual Operating Budget Expenditures / Savings Estimates Capital Budget Request Expenditures Savings Site Acquisition (a) 0 Permanent Personnel Services (a) Site Improvement / Preparation (b) 0 Other Personnel Services (b) Construction (c) 0 Current Expense (c) Utilities (d) 350.000 Architect / Engineering (e) Equipment (d) 0 Computer Systems / Equipment (f) Travel (e) Hardware 5.000 Other (f) Total Expenditures / Savings Estimates Software Accounting Unit: Training Service Will these amounts be consistent each year? Furnish / Equipment (g) 0 Other (h) Capital Budget Criteria (See Instructions) В A, B, C or D Total Capital Budget Request 350,000 Requirement Code: Definition Code: A. B. C. D. or X Α G. F. H. O H 100.00% Funding Percentages by Source: Other Information % Total Square Footage: 8,000 G = General F = Federal G. F. H. O % G. F. H. O 50 O = OtherEstimated Useful Life: H = HighwayAn Information Technology Project must be part of your IT Plan. Project # \Rightarrow Project Justification (Be Concise) Design new District 5 Highway Maintenance Patrol Section PS510 facility in Milford. Current facility is under sized to meet level of service requirements. Current facility is not capable of storing current maintenance vehicles. Current facility does not meet modern building codes, is considered obsolete, and potentially unsafe. The new facility can be sited on the existing land. This project will increase the State's utility consumption. Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

Richard Radwanski - District 5 Engineer

Commissioner

Telephone Number:

Date:

666-3336

4/29/2020

The existing PS510 Milford facility was originally built in 1939 and is showing its age being undersized to meet level of service requirements. Current facility is not capable of storing maintenance vehicles. Current facility does not meet modern building codes, is obsolete, and unsafe for State employees. The proposed new facility can be sited on the existing property. Utility and computer system upgrades are included. This project request is for design of the new facility. Construction funding will need to be appropriated with a request at a later date.

2. What the project is replacing or adding on to:

This project will design a new right-sized facility that will include crew quarters, bathrooms, foremen office, and vehicle storage bays for trucks. The crew currently includes 6 full-time NH DOT District 5 employees which are supplemented for winter maintenance by up to 8 hired trucks with operators. The current facility is too small to allow for crew members to take a break without using space not intended for that purpose (includes foreman office). The current facility has one bathroom which is not adequate for the regular crew size, and especially in the winter. Currently the foreman uses a portion the crew quarters as an office which is not secure or conducive for employee relations.

The overhead door clearance had to be modified (cut down) to allow for plow trucks and a front end loader to be able to access the facility. The facility is heated with an oil-fired hot air furnace located in a garage bay violating NFPA Life Safety codes.

In the winter, 2 plow trucks can be stored inside with plow equipment however, this reduces access around the truck for preventative vehicle maintenance. Trucks equipped with dry rock salt pre-wet systems can freeze-up when stored outside. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment. The current facility stores 2 trucks inside, along with the loader, leaving up to 8 hired trucks being parked outside in the weather.

3. A brief description of what the project includes:

The project will include an 80-ft. by 100-ft. building that meets current building code requirements. Architectural/engineering analyses will define the building dimensions and utility accommodations (water, sewer, and broadband cable) similar to recent replacement NH DOT Highway Maintenance Facilities.

No salt storage or spreader storage buildings, or fuel dispensing improvements are currently proposed.

4. Any back up information

Attached are recent photographs of the existing facility for reference.



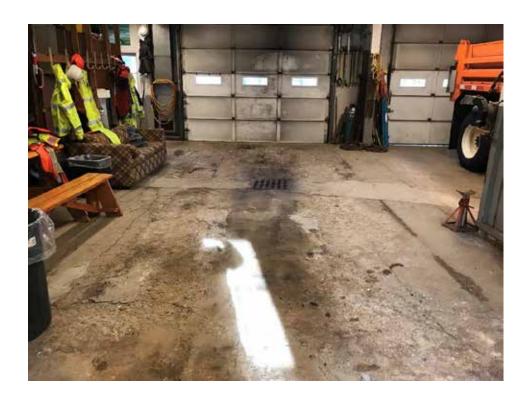
PS510 Milford Perspective View Looking North East



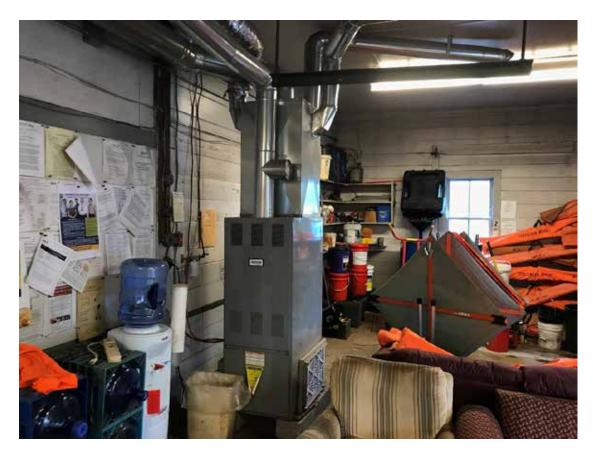
PS510 Milford View Looking South East



PS510 Milford Interior View of Bays for 2 State Trucks with no plow equipment



PS510 Milford Interior View of Loader Bay with low clearance



PS510 Milford Interior View garage bay with oil-fired furnace



PS510 Milford Interior View Crew Quarters with Foreman's Office

			77				FORM 1A
STATE OF NEW HAMPSHI	RE		CODE		NAME		
CAPITAL IMPROVEMENT PROJECT REQ	JEST	AGENCY	096	New Hampsh	nire Department of Tr	ansporta	ation
FISCAL YEARS 2022 - 2023		ACTIVITY / DIVISION	960515	Division of O	perations - Mechanic	al Servi	ces
PRIORITY #	9	PROJECT-TITLE / NAM	E	Lancaster Me	ech Serv - New Satell	ite Gara	ge (Design)
	2 ' E ' F ' DA			W. Devil		E E N	
Capital Budget Request	3 1	Related A	nnual Ope	rating Budget E	xpenditures / Saving	s Estima	ates
Site Acquisition (a)	0			_	Expenditures		Savings
Site Improvement / Preparation (b)	0	Permanent	Personnel S	Services (a)			
Construction (c)	0	Other	Personnel S	Services (b)			
Utilities (d)			Current 6	Expense (c)			
Architect / Engineering (e)	500,000		Eq	uipment (d)			
Computer Systems / Equipment (f)				Travel (e)			
Hardware				Other (f)			
Software		Total Expenditure	s / Savings	Estimates			
Training		Accounting Unit:					
Service		Will these amounts be	e consistent	each year?			
Furnish / Equipment (g)	0			IV. F.		100	
Other (h)	0		Capital	Budget Criteria	(See Instructions)	. C	
Total Capital Budget Request	500,000		Requ	uirement Code:	A, B, C or D	В	
				efinition Code:	A, B, C, D, or X	A	
Other Information		Funding Percent	ages by Soi	urce:	G, F, H, O	Н	100.00%
Total Square Footage;	16,000	G = General	F = Fed	deral	G, F, H, O		%
Estimated Useful Life:	50	H = Highway	O = Oth	ner	G, F, H, O		%
		An Information Technolog	gy Project m	ust be part of yo	ur IT Plan. Project #	⇒	
Design for a new Mechanical Services satellite gara building is obsolete and potentially unsafe, lacking the "stacked", having the job taking longer parked deep provide additional safety and ergonomic benefits, sustockroom associated with an increasingly diversifie existing Lancaster campus does not support land not precipilly approximately.	ge in Lancaster. The exist near ability to lift fleet units in a so that the shorter job coch as tire cages, mobile lid fleet. The new building leded to build a new facility	n the air, thus employing a "p an get out of the bay without fts, aquarius wash machines, will contain a wash bay that p	1 and will be t" The build being blocke etc. The burrovides add chased, This	ding only has two ed in The buildin uilding is also too itional fleet longe s project will have	o access doors so fleeing is too small for tools o small for additional reservity and environmentate no effect on the State	t vehicles and equequirement al improvent	s have to be uipment that would nts placed on the ements. The
	al Services Bureau Admir		4080		Telephone Nu	mber:	271-3721
Name: Victoria Sheehan	Commissioner	,				Date:	4/29/2020

The existing structure was constructed in 1981. The layout of the building is obsolete, potentially unsafe lacking the ability to lift fleet units in the air, thus employing a "pit" that allows the employees access to the underside of heavy fleet units without having to use crawlers. The building only has two access doors so fleet vehicles have to be "stacked" having the job taking longer parked deeper so that the shorter job can get out of the bay. Each mechanic should have their own overhead door to prevent this hardship. The building is too small and the ceiling too low for tools and equipment that provide for additional safety and ergonomic benefits such tire cages, mobile lifts, Aquarius wash machines, etc. The building is also too small for additional requirements placed on the stockroom associated with an increasingly diversified fleet. In addition, DEF fluid now required to operate diesel engines is being ordered by the pallet and taking vast amounts of space. The crane would also be stored inside and not require moving to give employees room to work.

The new building will contain a wash bay that provides additional fleet longevity & environmental improvements. The existing Lancaster campus does not support land needed to build a new facility, so land will need to be purchased. \$150K is also needed for equipment including a new mobile lift system, Mohawk lift system & overhead crane system.

2. What the project is replacing or adding on to:

The project will construct new satellite garage building. The existing building can be demolished or the existing structure may remain and offered to Bridge Maintenance or Highway Maintenance.

3. A brief description of what the project includes

The project will include design & construction of stand-alone satellite garage building (16,000 sf) with an optional wash bay. The site would have to be determined and purchased as I've been led to believe the existing District Office location does not have available land to support the construction of a new facility. The availability of Town sewer & water is unknown, but would be very beneficial if we decide to construct an attached wash bay.

4. Any back up information

Estimated costs were obtained via Public Works:

"I've attached instructions for estimating that DAS sends to all agencies for their use in capital project requests. The document gives a range for SF costs of maintenance facilities. I would use \$225/SF for your facility." ~Michelle Juliano 2/22/2018

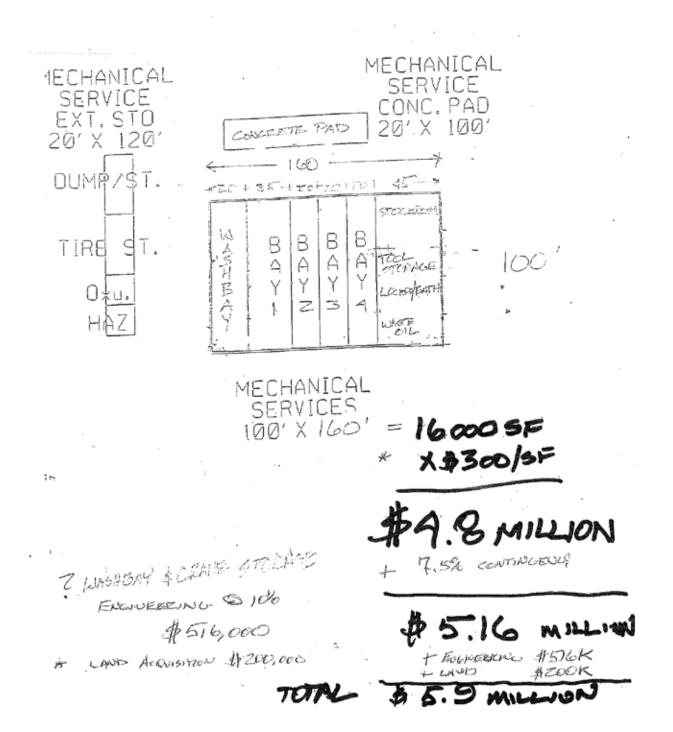
"If you add 10% to your 2018 request (5% per year for inflation from 2018 to 2020), that should give you a conservative number for your new request. Thanks for reaching out" ~Michelle Juliano 2/12/2020

I used \$300/sf included in the budget instructions plus 7.5% contingency @ 10% plus engineering/construction oversight and land acquisition.

Project estimate total: \$5.9 million



MECHANICAL SERVICES LANCASTETZ



Lancaster Satellite Garage – Front & Side.



Lancaster Satellite Garage – Front & Side.

STATE OF NEW HAMPS	SHIRE		CODE		NAME		FORM 1
CAPITAL IMPROVEMENT PROJECT		AGENCY	096	Now Hamnel	nire Department of T	ransnort	ation
FISCAL YEARS 2022 - 2023	(LQOLO)	ACTIVITY / DIVISION 960515 Operations					
PRIORITY	# 10	PROJECT-TITLE / NAME	1		Inderground Fuel Ta	nk Repla	cement
· · · · · · ·	"						. 123
Capital Budget Reque	st	Related A	nnual Ope	rating Budget E	expenditures / Saving	as Estima	ates
Site Acquisition (a			,	3 3	Expenditures		Savings
Site Improvement / Preparation (b		Permanent	Personnel :	Services (a)		7 [
Construction (c				Services (b)		1	
Utilities (d			Current	Expense (c)			
Architect / Engineering (e	100-100-20 Maria		Ed	uipment (d)		1 [
Computer Systems / Equipment (f				Travel (e)			
Hardware				Other (f)			
Software		Total Expenditures	s / Savings	Estimates			
Training		Accounting Unit:					
Service		Will these amounts be	consistent	each year?			
Furnish / Equipment (g)						
Other (h	Capital Budget Criteria (See Instructions)						
Total Capital Budget Reques	t 500,000		Req	uirement Code:	A, B, C or D	В	
			[Definition Code:	A, B, C, D, or X	Α	
Other Information		Funding Percenta	ages by So	urce:	G, F, H, O	Н	100.0
Total Square Footage		G = General	F = Fe	deral	G, F, H, O		
Estimated Useful Life	: 30	H = Highway	O = Ot	her	G, F, H, O		
		An Information Technolog	y Project m	nust be part of yo	ur IT Plan. Project #	⇒	
	Dec	inst Justification (Po Consi	ina)				
he NH Department of Transportation currentl		ject Justification (Be Conci		and that are 25 v	ages or older. As the	sitos act l	havand the warr
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tact Name: Caleb Dobbins - St	ate Maintenance Engineer				Telephone Nu	ımber:	271-2693
me: Victoria Sheehan	Commissione					Date:	4/29/2020

The NHDOT Fuel Distribution System is the Strategic Fuel Reserve for all of NH State Government.

The NH Department of Transportation currently has 40 fuel sites that have underground storage tanks and appurtenances that are 25 years or older. As the sites get beyond the warranty and life expectancy of the tanks and components, the potential for environmental issues and extensive repairs increases considerably. Prior Capital Improvement Projects (CIP) provided funding to bring many sites into environmental compliance; this CIP request continues that effort to replace the oldest and highest risk sites and to make structural improvements to sites near mid-life to prolong those sites' life span and to minimize potential environmental issues.

It is difficult and costly to assess condition of Underground Storage Tanks while sites are in operation and condition can vary greatly based on many factors over the life of the tank. DOT has had a tank fail around 20-years and other tanks removed around 25-years of age showing some corrosion that can lead to failure. The sites proposed for replacement will all be nearly or over 30-years old at the proposed time of replacement.

2. What the project is replacing or adding on to:

The project will continue the recapitalization plan of the existing fuel system by reconstructing new fuel sites at different patrol shed locations throughout the state. In most situations the existing fuel site will be removed to accommodate the new tank(s) and appurtenances.

3. A brief description of what the project includes

The project will include reconstruction of single product (diesel) and two product (unleaded and diesel) fuel sites. The desire is to reconstruct as many fuel sites as allowed by available funding, beginning in State Fiscal Year (SFY) 2022 and extending for 4-6 years while generally keeping with the following priority list*:

- FS 403 Marlow 34 Years Old (install split tank)
- FS 201 Orford 35 Years Old
- FS 408 Hancock 33 Years Old (install split tank)
- FS 203 Rumney 34 Years Old
- FS 108 Jefferson 33 Years Old
- FS 212 Cornish 34 Years Old
- FS 214 New London 27 Years Old
- FS 303 Freedom 35 Years Old
- FS 1131 Glen/Bartlett 31 Years Old (install split tank)

4. Any back up information (include pictures or any other information that tells your story)

^{*}Age shown for sites above is the age at the proposed time of replacement

Photo 1: Marlow



Photo 2: Orford



Photo 3: Hancock



Photo 4: Rumney

