THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

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William Cass, P.E.
Commissioner

David Rodrigue, P.E.
Assistant Commissioner
Andre Briere, Colonel, USAF (RET)
Deputy Commissioner

The Honorable Ken Weyler, Chairman
Fiscal Committee of the General Court and

Her Excellency, Governor Kelly A. Ayotte
and the Honorable Council
State House
Concord, New Hampshire 03301

Division of Project Development
January 22, 2025

REQUESTED ACTION

Pursuant to RSA 14:30-a, VI, authorize the New Hampshire Department of Transportation to accept and expend revenue in the amount of $3,200,000 from an ADCMS (Advanced Digital Construction Management Systems) Grant from the United States Department of Transportation, Federal Highway Administration, for research, development, and implementation of digital delivery systems for highway construction projects in New Hampshire, upon the date of Fiscal Committee and Governor and Council approval, through June 30, 2025. 100% Federal Funds.

In SFY 2025, funds shall be accepted and expended within 04-096-096-963515-3054, Consolidated Federal Aid Program, as follows:

04-096-096-963515-30540000	Current Budget FY2025	Requested Change	Revised Budget FY2025
Traffic Operations			
Expenses:			
018 500106 Overtime	$16,800	$0	$16,800
020 500200 Current Expenses	46,111	0	46,111
023 500291 Heat Electricity Water	5,000	0	5,000
024 500228 Maint Other Than Build-Grn	105,999	0	105,999
030 500311 Equipment New / Replace	1,047,293	0	1,047,293
037 500173 Technology-Hardware	6,028	240,000	246,028
038 500177 Technology-Software	10,159,085	554,496	10,713,581
046 500464 Consultants	86,918,769	2,405,504	89,324,273
060 500601 Benefits	20,169	0	20,169
065 500541 Board Expenses	40,000	0	40,000
066 500546 Employee Training	40,000	0	40,000
070 500703 In State Travel Reimbursement	15,000	0	15,000
080 500713 Out of State Travel Reimbursement	15,000	0	15,000
400 500870 Construction Repair Material	408,260,838	0	408,260,838
401 500877 Land – Interest	61,923,714	0	61,923,714
Total Expenses	$568,619,806	$3,200,000	$571,819,806

04-096-096-963515-30540000	Current Budget FY2025	Requested Change	Revised Budget FY2025
Source of Funds			
Revenue			
000 409151 Federal Funds	$537,023,707	$0	$537,023,707
000 408043 Federal Funds	0	3,200,000	3,200,000
005 402851 Private Local Funds	7,000,000	0	7,000,000
009 401771 Agency Income	500,000	0	500,000
00D-488544 Transfers from Other Agencies	2,800,000	0	2,800,000
000 000015 Highway Fund	21,296,099	0	21,296,099
Total Revenue	$568,619,806	$3,200,000	$571,819,806

EXPLANATION

The Department requests authorization to accept and expend the proceeds from a Federal Grant.

The ADCMS (Advanced Digital Construction Management Systems) Grant from the United States Department of Transportation, Federal Highway Administration, in the amount of $3,200,000 will fund research, development, and implementation of digital delivery systems for highway construction projects in New Hampshire. This project will establish improved information management practices across all lifecycle phases of a construction project and build capacities with NHDOT to be effective information modelers and managers. This, in turn, will lead to maximized interoperability with existing and planned systems and applications, as well as with contractors and consultants, thereby enhancing productivity, safety, and quality while managing project complexity and reducing project delays and cost overruns.

Specific explanations relating to the Department's spending requests are as follows:

Consolidated Federal Aid (3054) 94.4% Federal Funds, 1.2% Private Local Funds, 0.1% Agency Income, 0.5% Transfers from Other Agencies and 3.8% Highway Funds

Class 037 Increase Technology-Hardware by $240,000 to purchase computer hardware associated with this ADCMS grant.

Class 038 Increase Technology-Software by $554,496 to purchase computer software associated with this ADCMS grant.

Class 046 Increase Consultants by $2,405,504 to perform work associated with the ADCMS grant.

In the event, that the Federal Funds become no longer available, General Funds will not be requested to support this program.

Your approval of this resolution is respectfully requested.

Sincerely,

William J. Cass, P.E.
Commissioner

Attachments

New Hampshire DOT
Department of Transportation

FY24 Advanced Digital Construction Management Systems (ADCMS) Grant Application

Volume II – Budget Application

Advanced Digital Construction Management Systems	
Entity Type	**STATE DOT**
Organization Name	**New Hampshire Department of Transportation (NHDOT)**
Project Name	**Using Digital Project Delivery as a Catalyst for Recruitment and Retention at NHDOT**
Previously Incurred Project Cost	**$0**
Future Eligible Project Cost	**$4,000,000**
Total Project Cost (from all funding sources)	**$4,000,000**
ADCMS Program Funding Request	**$3,200,000**
Non-Federal Share for ADCMS Program Funding Request	**$800,000**
Total Federal Funding (including ADCMS Program)	**$3,200,000**

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Grant Funds, Sources, & Uses of Project Funds

The New Hampshire Department of Transportation (NHDOT) is requesting $3,200,000 through the FY 2024 Advanced Digital Construction Management Systems (ADCMS) Grant Program for the **Using Digital Project Delivery as a Catalyst for Recruitment and Retention at NHDOT Project** (herein known as the Project), a foundational piece towards developing a digital delivery platform in New Hampshire. The total cost of the Project is $4,000,000 and NHDOT will be providing $800,000 in toll credits to meet the requirements of the ADCMS program, as reflected in the letter of funding commitment.

Table 1 summarizes the Project budget for all years and components, broken down by funding sources in terms of dollars and percentages, below:

Table 1. Project Funding Breakdown

Project Components	Federal ADCMS Grant	Non-Federal NHDOT	Total Project Cost
Future Eligible Cost			
Task 1 - Develop Strategic & Implementation Plan	$80,000	$20,000	$100,000
Task 2 - Develop Survey & Design Standards, Training Modules, Technology Configuration & Training	$800,942	$200,235	$1,001,177
Task 3.1 - Develop Construction Workflow & Standards	$541,800	$135,450	$677,250
Task 3.2 - Pilot Project for Testing Implementation	$200,000	$50,000	$250,000
Task 4.1 - Enterprise Data Management	$225,000	$56,250	$281,250
Task 4.2 - Procurement Support	$394,496	$98,624	$493,120
Task 4.3 - Field Equipment	$240,000	$60,000	$300,000
Task 4.4 - Enhancements to SmartNet Services	$160,000	$40,000	$200,000
Task 5 - Workforce Development	$485,762	$121,441	$607,203
Contingency Costs	$72,000	$18,000	$90,000
Subtotal	$3,200,000	$800,000	
Share Percentage	**80%**	**20%**	
Total Project Cost			**$4,000,000**

Further, a breakdown of the project budget table by year and activities is presented below (Table 2):

Table 2. Project Cost by Year and Components

Project Components	Year 1	Year 2	Year 3	Year 4	Total Project Cost
Task 1 - Develop Strategic & Implementation Plan	$ 85,000	$ 5,000	$ 5,000	$ 5,000	$ 100,000
Task 2 - Develop Survey & Design Standards, Training Modules, Technology Configuration & Training	$ 123,750	$ 412,427	$ 292,500	$ 172,500	$ 1,001,177
Task 3.1 - Develop Construction Workflow & Standards	$ -	$ 263,250	$ 207,000	$ 207,000	$ 677,250
Task 3.2 - Pilot Project for Testing Implementation	$ -	$ -	$ 250,000	$ -	$ 250,000
Task 4.1 - Enterprise Data Management	$ 56,250	$ 225,000	$ -	$ -	$ 281,250
Task 4.2 - Procurement Support	$ -	$ 107,200	$ 150,080	$ 235,840	$ 493,120
Task 4.3 - Field Equipment	$ 300,000	$ -	$ -	$ -	$ 300,000
Task 4.4 - [illegible]	$ 200,000	$ -	$ -	$ -	$ 200,000
Task 5 - Workforce Development	$ -	$ 202,401	$ 202,401	$ 202,401	$ 607,203
Contingency Costs	$ 22,500	$ 22,500	$ 22,500	$ 22,500	$ 90,000
Project Total Cost	**$ 787,500**	**$ 1,237,778**	**$ 1,129,481**	**$ 845,241**	**$ 4,000,000**

ADCMS Program Funds

NHDOT is requesting $3,200,000 (80 percent of the total eligible project cost) in FY 24 ADCMS grant funding to establish information management standards for all elements in the construction lifecycle of a project and a framework for their integration with one another. There are no previously incurred costs to date.

Non-Federal Funds

NHDOT will be providing $800,000 (20 percent of the total eligible project cost) in matching funds for the Project, as reflected in the letter of funding commitment (See Appendix A – Additional Supporting Documentation). The match funds will be provided as toll credits that can be applied towards the non-federal share requirements on Federal-aid projects, according to Federal Highway Administration's (FHWA) innovative finance strategies. NHDOT reports on the availability and use of toll credits on an annual basis with the FHWA New Hampshire Division. As of the report through the end of federal fiscal year 2023, NHDOT had a balance of more than $186 million in available toll credits.

Other Federal Funds

The Project have not been awarded nor will utilize any other federal funds towards the development of the digital delivery framework.

Budget Application

As demonstrated in Table 1, the Project satisfies the ADCMS Program cost-sharing requirements. Since the Project is not utilizing any other federal funds, the total federal share of the Project is the ADCMS grant request equivalent to 80 percent of the total eligible project cost.

NHDOT has prepared the cost estimate for each component of the Project by utilizing year of Expenditure (YOE) costs, which covers an appropriate amount of inflation. Additionally, NHDOT has also budgeted $90,000 in contingency costs to cover unanticipated cost increases. This leads to better financial risk management and higher probability of project delivery on time and as per schedule.

As detailed in Volume 1 – Technical Application, the Project funds will be used to delivery Tasks 1 to 5 associated with the Project. The funds will be used to hire consultants to develop the Strategic and Implementation Plan, develop information management standards for survey, design, construction, and post-construction phases, develop training modules, and implement technology configuration and training programs for upskilling NHDOT's existing and new workforce. The funds will also enable purchase of software (procurement support), hardware (field equipment), and subscription services to support enterprise data management for digital delivery.

Other Business Information

1) There are no exceptions to the anticipated award terms and conditions as contained in Section F, Federal Award Administration Information.

2) The New Hampshire Department of Transportation does not anticipate using any preexisting intellectual property during award performance.

3) The New Hampshire Department of Transportation's System for Award Management (SAM) Unique Entity Identifier (UEI) is DMA7LGZ3RMT1.

4) The New Hampshire Department of Transportation has previously completed an A-133 Single Audit performed on March 31, 2024.

5) None of the contract/agreement awarded to New Hampshire Department of Transportation have been terminated for convenience of the Government within the past 3 years, nor any contract/agreement were terminated for default within the past 5 years.

6) The New Hampshire Department of Transportation has not applied for any prior federal discretionary funding for this Project nor intends to apply to other DOT grant programs and opportunities at this time.

7) The New Hampshire Department of Transportation acknowledges the acceptance of the terms stated in the ADCMS FY 2024 Notice of Funding Opportunity (NOFO).