Maine Department of Transportation FY 2024 Competitive Highway Bridge Program

Addendum to the Bridge Investment Program Planning and Bridge Grants



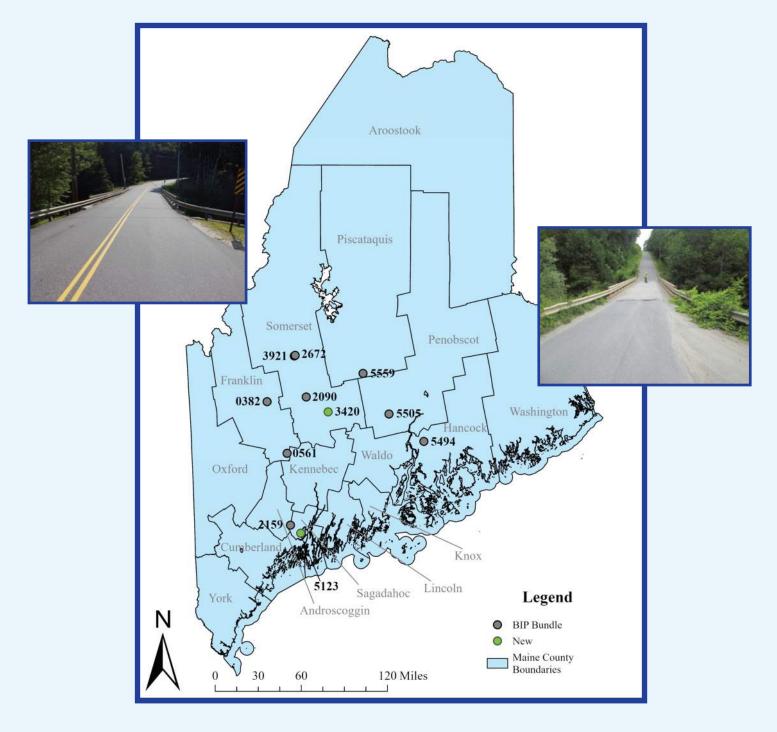


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FY 2024 CHBP Addendum to the BIP Application

I. Previous Awards

In October of 2024, the State of Maine Department of Transportation (MaineDOT) submitted a grant application in response to a Notice of Funding Opportunity (NOFO) for the FYs 2023 – 2026 Bridge Investment Program (BIP). The BIP grant application requested \$30,495,000 in grant funding for the replacement of nine (9) bridges across rural areas of central Maine.

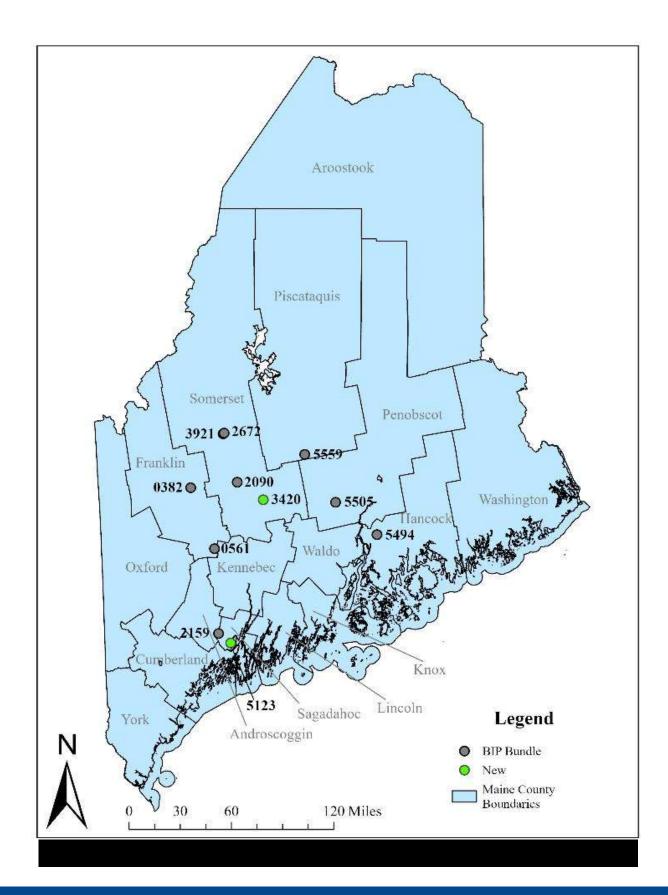
Pursuant to Section 4.F of NOFO (No. 693JJ325NF00010) posted on January 13, 2025, MaineDOT is now submitting an addendum to the original BIP grant application via the FY 2024 Competitive Highway Bridge Program (CHBP). Consistent with Section 3.vi of the NOFO, the addendum increases the requested funding to meet or exceed the minimum award size of \$32,500,000 for the State of Maine.

II. Project Narrative

A. Changes to Project Description and Scope

MaineDOT is requesting \$38,784,000 in CHBP grant funding for the Off-System Bridge Bundle Project ("Project"). This represents an increase of \$8,289,000, or 22%, more than the \$30,495,000 requested in the BIP grant application. The additional funding will allow MaineDOT to replace two (2) additional bridges (Attachment A) to the nine (9) bridge replacements included in the FY2023-2026 BIP grant application; resulting in a total of eleven (11) bridges to be replaced in rural communities throughout central Maine (See Figure 1).

Per Section 1 – Executive Summary of the NOFO, the Project is eligible for FY 2024 CHBP funding as the State of Maine has a population density of less than 115 individuals per square mile (43.1 people per square mile) and less than 26% of total bridges classified as in good condition or greater than or equal to 14% of total bridges classified in poor condition (15.4% are classified as poor or worse). Having similar characteristics in terms of condition, size, location, and use, the two (2) new bridge replacements can utilize the same conceptualized standardized plans as in the BIP grant application and the Project still meets the definition of a bridge bundle.



C. Grant Funds, Sources, and Use of Project Funds

MaineDOT requests \$38,784,000 in CHBP Project Grant funding. This represents an increase of \$7,885,000, or 22%, more than the \$30,495,000 requested in the BIP Bridge Project grant application. This increase is the result of adding two (2) bridges, #3420 and #5123, to the bundle. All mandated budget forms have been revised and uploaded to Grants.gov The project conforms with the January 13, 2025, CHBP NOFO, and upon award, given the Department's technical capacity and Federal grant experience, MaineDOT expects to satisfy applicable administrative and obligation requirements. See Attachment B for an updated budget breakdown. Important elements of Project Funding include:

- 1. Non-Federal Match funding includes 20% state funding committed by MaineDOT from its State Highway Fund. In the case of a cost overage MaineDOT will cover the additional costs by using other federal funding. An updated funding commitment letter accompanies the application, Attachment C.
- 2. There have been no previously incurred expenses to date.
- 3. According to the updated Benefit Cost Analysis (BCA) the project has a projected benefit of \$902,359,528 over the 30-year analysis period (Attachment D). This represents a decrease of \$21,143,568, or 2.1%, less benefit than the BIP Bridge Project grant application (\$923,503,096). The reason for this decrease in benefits is due to changing the project schedule to adhere to the expenditure deadline of this CHBP Grant.
- 4. The Project has a benefit-cost ratio of at least 23:1 based on a Net Present Value (NPV) at a 10% discount rate over 30 years (Attachment D).
- 5. Savings are realized primarily through coordination of construction and bridge closures requiring detours on surrounding roads. This limits greenhouse gas emissions and minimizes travel interruptions. Reduced maintenance costs also contribute to the cost savings.
- 6. No funding is contingent upon satisfying a condition, nor is it available only during a set period.
- 7. No funds other than the requested Grant funding are subject to Federal Limits.

D. Effects on Merit Criteria Presented in BIP Project Grant Application

As with the nine (9) bridge identified for replacement within the BIP grant application, the two (2) additional bridges are rural bridges crucial for connecting otherwise geographically isolated communities. According to the National Bridge Inventory (NBI), all eleven (11) bridges are in poor condition, Table 1 shows condition and location information for the two additional bridges.

Like their nine (9) counterparts included in the BIP application, due to their isolation and rural nature, the two (2) additional bridges also experience low traffic volumes, making it challenging to prioritize them for funding within the broader scope of MaineDOT's infrastructure needs. Consequently, they often fall to the bottom of the priority list and continue to deteriorate. These bridges are essential for regional and state roadway networks, connecting people with everyday necessities and essential services such as

places of employment, schools, grocery stores, and medical care. Without replacement or rehabilitation these bridges are at risk of further deterioration to the point of closure, resulting in severe adverse connectivity, environmental, economic, and social impacts to the surrounding communities.

The closure of any of these bridges will result in a delay of the delivery of emergency services and will increase vehicle miles traveled (VMT) and localized greenhouse gas emissions (GHG) through use of detour routes. By improving safety, efficiency, and reliability of the movement of people and freight over these bridges, reducing the number of bridges in poor condition, and leveraging MaineDOT's non-Federal financial contributions, the Project will advance the program goals and objectives of both the BIP, as established in Section A.1.a of the December 20, 2023, NOFO (693JJ324NF00006), as well as the goals of this CHBP Grant, as established in Section 3.ii of the NOFO (693JJ325NF00010).

1. State of Good Repair

The response to the state of good repair criteria from the BIP Bridge Project grant application is not affected by the addition of two (2) bridges. As seen Table 1 below, the condition of the two (2) additional bridges shares similar characteristics with the other nine (9) bridges.

Table 1.	Summarv	of Project	Bridge	Conditions.
10010 1.	Summery	0,110,000	Druge	conditions.

NBI Number	County Name	Town Name	Year Built ¹	Deck Rating	Superstructure Rating	Substructure Rating	Channel Rating	Culvert Rating	Bridge Condition	AADT	Bypass Detour Length	Scour Rating
0382	Franklin	Salem Twp	1974	N	N	Ν	5	4	3 –Poor	101	100	4
0561	Franklin	Chesterville	1950	4	4	4	6	Ν	3 – Poor	127	6	3
2090	Somerset	Embden	1934	5	5	4	6	Ν	3 – Poor	599	0	3
2159	Sagadahoc	Bowdoin	1936	4	6	4	7	Ν	3 – Poor	412	100	5
2672	Somerset	Caratunk	1922	4	4	5	5	N	3 – Poor	196	0	4
*3420	Somerset	Cornville	1936	5	5	4	7	N	3 – Poor	170	6	8
3921	Somerset	Caratunk	1945	4	4	5	5	N	3 – Poor	180	100	3
*5123	Sagadahoc	Topsham	1920	4	4	5	6	N	3 – Poor	1089	1	8
5494	Hancock	Orland	1951	5	5	4	6	N	3 – Poor	291	7	2
5505	Penobscot	Carmel	1963	5	4	6	5	N	3 – Poor	600	3	4
5559	Piscataquis	Sangerville	1954	4	4	5	5	N	3 – Poor	103	3	3

¹Red cells indicate substandard roadway widths.

2. Safety and Mobility

The maintenance of traffic scheme for the two (2) additional bridges is a bridge closure with off-site detour during construction, which is consistent with the other bridges when deemed appropriate for the respective location. Bridge #3420 is currently 14.6ft from curb to curb, and bridge #5123 is 21.2ft curb to curb. Bridge #3420 does not meet the current design standard. The safety of the bridges will be improved by increasing the roadway width. Refer to Table 2 for the existing and proposed curb to curb widths, the two (2) additional bridges are marked below.

NBI Number	Town Name	Average Daily Traffic	Existing Curb to Curb Width (ft) ¹	Proposed Curb to Curb Width (ft) ²
0382	Salem Twp	101	21	22
0561	Chesterville	127	17.3	22
2090	Embden	599	23.9	24
2159	Bowdoin	412	19.3	24
2672	Caratunk	196	20	22
*3420	Cornville	170	14.6	22
3921	Caratunk	180	24	24
*5123	Topsham	1089	21	24
5494	Orland	291	18.2	24
5505	Carmel	600	19.1	24
5559	Sangerville	103	24	24

Table 2	Bridge	Roadway	Width
1 ubic 2.	Driuge	Rouaway	main.

¹Red cells indicate substandard roadway widths.

² Proposed curb to curb widths are conceptual and could change based on Maine state standards for bicycle and pedestrian safety.

In Maine, most crash injuries and fatalities occur on rural roads.¹ Crash data associated directly with the bridges included in the Project show no reported crashes in the last ten (10) years. However, crash data for potential detours in the event of bridge closure show that travelers would experience a higher risk of crash events if redirected for extended periods, the two (2) additional bridges are marked (Table 3). Attachment E shows the detour routes for the two (2) additional bridges.

		Vehicle Crashes									
Bridge #	0382	0561	2090	2159	2672	*3420	3921	*5123	5494	5505	5559
Crash Severity Code	-	0	0	-	0	0	-	0	0	0	0
Fatal (K)	-	0	0	-	0	0	-	0	0	0	0
Serious Injury (A)	-	0	0	-	0	0	-	0	0	0	0
Minor Injury (B)	-	0	0	-	0	0	-	0	0	0	0
Possible Injury (C)	-	1	0	-	0	0	-	4	4	7	2
Property Damage Only (PD)	-	2	9	-	0	5	-	8	3	7	5
Total	-	3	9	-	0	5	-	12	7	14	7

Table 3. Detour Route Crash Data.¹

¹ Source: <u>Maine Public Crash Query Tool</u>

¹ https://uploads.mainedotpima.com/300823a7-ddcf-4ccc-9ca9-53d6425d1c4c.pdf, p. 64

3. Economic Competitiveness and Opportunity

The response to the economic competitiveness and opportunity criteria from the BIP Bridge Project grant application is not affected by the addition of two bridges.

4. Climate Change, Sustainability, Resiliency, and the Environment

a. Reduction of Air Pollution or Greenhouse Gases

The response to the reduction of air pollution or greenhouse gases criteria from the BIP Bridge Project grant application is not affected by the addition of two bridges.

b. Improved Resiliency of At-Risk Infrastructure

Both bridges #3420 and #5123 are in Zone A on FEMA's Flood Insurance Study Zones Map.

Six of the nine BIP grant bridges and one of two of the additional bridges are natural constriction points, as their existing structure lengths are less than 1.2 times the bank-full width (BFW) of the channel, which is the typical design length for new bridge infrastructure in the state (Table 4). All bridge replacements for this project will be single span structures with the substructure elements located behind the existing abutments. Span lengths are sized to accommodate 1.2 times BFW, matching the existing hydraulic needs of the location and mitigating the risk of future flood inundation, thereby improving overall resiliency. The two (2) additional bridges are marked below.

Table 4. Existing Hydraulic Conditions by Bridge.

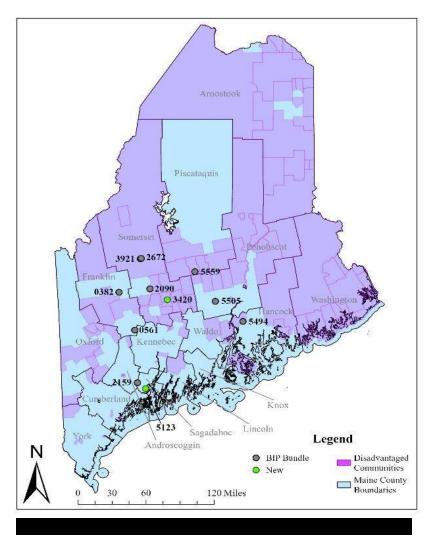
NBI Number	ng Hydraulic C Existing Bridge Length (ft)	sting 1.2*BFW FEMA Flood M idge (ft) Insurance Study ngth Zones ft)		NBI Item 71 (Waterway Adequacy)	Waterway Adequacy Inspection Report Notes N/A
0382	52.2	46.43	Zone X (500 Year Storm)		
0561	23	26.89	Zone A (100 Year Storm Without Base Flood Elevations)	5 – Occasional Overtopping of Approaches – Significant Delays	The substructure is completely submerged, and the water level is close to the superstructure.
2090	36	45.01	Zone A (100 Year Storm Without Base Flood Elevations)	8 - Bridge Above Approaches	N/A
2159	60.2	44.05	Zone A (100 Year Storm Without Base Flood Elevations)	9 - Bridge Above Flood Water Elevations	N/A
2672	23.3	43.90	Zone A (100 Year Storm Without Base Flood Elevations)	6 - Occasional Overtopping of Approaches - Insignificant Delays	Erosion on the upstream end has scoured higher up the embankment and removed some larger rocks.
*3420	84.5	4.77	Zone A (100 Year Storm Without Base Flood Elevations)	9 – Bridge Above Flood Water Elevations	N/A
3921	30	43.56	Zone A (100 Year Storm Without Base Flood Elevations)	6 - Occasional Overtopping of Approaches - Insignificant Delays	Adjacent roadway washed out due to flooding and overtopping of the bridge during storms in December 2023.
*5123	61	61.44	Zone A (100 Year Storm Without Base Flood Elevations)	9 – Bridge Above Flood Water Elevations	N/A
5494	41	61.08	Zone A (100 Year Storm Without Base Flood Elevations)	7 - Slight Chance of Overtopping Bridge	N/A
5505	29	32.48	Zone A (100 Year Storm Without Base Flood Elevations)	9 - Bridge Above Flood Water Elevations	N/A
5559	26.9	25.75	Zone AE (100 Year Storm With Base Flood Elevations)	9 - Bridge Above Flood Water Elevations	N/A

c. Improved Wildlife Connectivity, Especially for Aquatic Species

Bridge #3420 is located within an area designated as containing rare, threatened, or endangered species, with Brook Floater as the identified threatened species as mapped by Maine Department of Inland Fisheries & Wildlife's Beginning with Habitat Map Viewer. The proposed design of 1.2 BFW as well as using a single span structure minimizes potential impacts to the threatened species present at bridge #3420.

d. Addressing Disproportionate Negative Environmental Impacts on Disadvantaged Communities

In addition to four (4) of the original nine (9) bridges in the BIP application, one of the new bridges (#3420) is also in a disadvantaged community census tract, Figure 2. Bridge #3420 is also in a census tract that ranks in the 98th percentile for expected agriculture loss rate and in the 91st percentile for asthma.²



² <u>https://maps.dot.gov/BTS/GrantProjectLocation/Verification/ and former Climate and Environmental Justice</u> <u>Screening Tool.</u>

5. Equity and Quality of Life

a. Equity and Engagement

The response to the equity and engagement criteria from the BIP Bridge Project grant application is not affected by the addition of two bridges.

b. Incorporation of Nonvehicular and/or Public Transportation into the Project

The response to the nonvehicular and/or public transportation criteria from the BIP Bridge Project grant application is not affected by the addition of two bridges.

6. Innovation

a. Innovative Project Design or Construction Techniques

Both bridges, #3420 and #5123, are proposed to be steel beam for the superstructure type with a span length of 90ft, and conventional abutment types. Table 5 summarizes each bridge location and the proposed replacement bridge geometrics, superstructure, and substructure types.

NBI Number	BFW	Proposed Span Length (ft)	Proposed Bridge Width (ft)	Proposed Superstructure Depth (ft)	Proposed Super Structure Type	Proposed Profile Change (ft)	Abutment Type Integral vs. Conventional	MOT Scheme
0382	46.43	90	25.33	3.75	Steel Beam	1	Integral	Temporary bridge
0561	26.89	70	25.33	3.75	NEXT 36F	3	Integral	Bridge closure with offsite detour
2090	45.01	70	27.33	3.75	NEXT 36F	1	Conventional	Temporary bridge
2159	44.05	90	27.33	3.75	Steel Beam	1	Integral	Temporary bridge
2672	43.90	70	25.33	3.75	NEXT 36F	1	Integral	Bridge closure with offsite detour
*3420	3.98	90	25.33	3.75	Steel Beam	2	Conventional	Bridge closure with offsite detour
3921	43.56	70	27.33	3.75	NEXT 36F	3	Conventional	Temporary bridge
*5123	51.20	90	25.33	3.75	Steel Beam	1	Conventional	Bridge closure with office detour
5494	61.08	90	27.33	3.75	Steel Beam	2	Integral	Temporary bridge
5505	32.48	70	27.33	3.75	NEXT 36F	1	Integral	Bridge closure with offsite detour
5559	25.75	70	27.33	3.75	NEXT 36F	1	Integral	Bridge closure with offsite detour

Table 5. Proposed Replacement Geometrics, Superstructure, and Substructure Types.

b. Innovative Technology

The response to the innovative technology criteria from the BIP Bridge Project grant application is not affected by the addition of two bridges.

c. Innovative Financing

The EDC-F Final Report states that bundling can be expected to result in approximately 10% savings in construction cost. MaineDOT estimates bridge bundling and employing an owner-engineer to assist in generating an RFP, and the selection of a design-build team, will save \$4,040,000.

d. Innovative Planning and Environmental Review Process Improvements

The response to the innovative planning and environmental review process improvements criteria from the BIP Bridge Project grant application is not affected by the addition of two bridges.

E. Project Readiness and Environmental Risk

a. Technical Feasibility

Each bridge will follow a standardized design detailing. Bridges were selected based on their geographic location and similar span ranges to fully standardize structural elements. Preliminary calculations were developed to understand the required bridge width and length and determine the geometric specifications of each bridge by the type of substructure and superstructure. All bridges will be single-span structures to minimize impacts within the waterway and reduce construction costs associated with in-water pier elements.

The following elements are anticipated to be standardized across all Project bridges:

- Abutment details
- Bearings
- Superstructure girders/beams
- Bridge deck
- Additional components such as diaphragms, railing detail and layout, asphaltic plug joints, scuppers, and approach railing transitions

Attachment F presents conceptual standardized plans with feasible substructure and superstructure configurations. For substructures, the Project will use integral abutments on steel H-piles wherever feasible, providing consistency and ease of construction. In cases where shallow bedrock is present, conventional abutments on spread footings will be utilized. Both types will incorporate consistent details to streamline design and constructability. For superstructures, the Project will use either precast concrete NEXT beams for 70-foot-long bridges or steel plate girders for 90-foot-long bridges.

MaineDOT possesses the technical experience to complete the Project, having successfully designed, built, and maintained similar bridge projects statewide. The Department is a seasoned, meticulous, and dependable recipient of previous TIGER, FASTLANE, INFRA, CHBP, BUILD, Culvert AOP, Rural, and RAISE grant funding. USDOT can trust MaineDOT to fully fund and begin construction on or before the obligation of funds date, ensuring the Project's completion without risk. MaineDOT expends or disburses more than \$675 million per year, including Federal, State, and local funds. MaineDOT will comply with all Federal regulations with regards to all aspects of the Project, including Equal Employment Opportunity (EEO) Policy and Affirmative Action, all NEPA requirements, all Civil Rights policies, the Americans with Disabilities Act (ADA), and any other applicable regulations.

In alignment with Executive Order 13985, Advancing Racial Equity and Support for Underserved Communities Through the Federal Government, MaineDOT has issued its own Statement on Equity:

The essence of equity in transportation is to ensure that all Maine people have access to safe and reliable transportation options that support economic opportunity and quality of life regardless of a person's economic, social, ethnic, racial, age, sexual orientation, physical, mental, or geographic circumstances.³

In addition, the Department's overall mission is "to support economic opportunity and quality of life by responsibly providing our customers the safest and most reliable transportation system possible, given available resources." MaineDOT values communication with all members of the communities that are impacted by projects.

b. Project Schedule

MaineDOT is an experienced partner able to deliver the Project with minimal risk as the Department is a responsible recipient of previous grant funding. The Project's non-Federal funding sources are fully committed with funding also available to cover contingency and cost increases. Each bridge is scheduled for two years of construction, the first bridge beginning in 2028 and the final bridge construction ending in 2032. This schedule requires three (3) or four (4) bridge constructed each year. Design, ROW, and NEPA will be completed prior to construction for each bridge. Table 6 provides estimated dates for project milestones. Attachment G shows an estimated construction of the grant agreement and the contracting approach taken.

Design and Project Status	Planned Start Date	Planned End Date
Preliminary Design	1/1/2026	1/1/2027
NEPA	1/1/2026	9/30/2027
Final Design/RFP Development	1/1/2027	9/30/2027
ROW Acquisition	6/1/2026	9/30/2027
Construction	10/1/2027	8/30/2032

Table 6. Project Schedule.¹

¹ Design, ROW, and NEPA efforts will be phased according to individual bridge construction years.

c. Required Approvals

i. Environmental Permits and Reviews

Environmental permits and approvals necessary for the Project include National Environmental Policy Act (NEPA), Section 106 of the National Historic Preservation Act, the Federal Endangered Species Act, Section 404 Clean Water Act Permit (U.S. Army Corp of Engineers), and Maine Natural Resources Protection Act (NRPA). MaineDOT is deploying innovation to administer the NEPA process and permitting for the Project through Programmatic Agreements already in place as well as pending NEPA assignment, which will ensure timely and consistent reviews and accelerate Project delivery. MaineDOT, the Federal government, and other State agencies have agreements to thoroughly and expeditiously review a Project's environmental impacts. Specifically, MaineDOT and FHWA Maine Division have a <u>Programmatic Agreement</u> for processing actions classified as Categorical Exclusions (CEs). The agreement authorized MaineDOT

³ https://www.maine.gov/mdot/publications/docs/2022/MaineDOTEquityStatement6-5-22.pdf

to determine on behalf of FHWA whether a project qualifies for a CE specifically listed in <u>23 CFR 771.117</u>. In addition, it authorizes MaineDOT to approve a CE on behalf of FHWA as a "Programmatic CE" pursuant to the Agreement. No separate review or approval of the CE by FHWA is required. Project documentation is available to FHWA upon request. Based on baseline data collection and preliminary plans, the Project is expected to have minimal to no impacts on natural or cultural resources or the environment.

ii. State and Local Approvals

The only state level environmental permit and approval required is the Maine Natural Resources Protection Act (NRPA). Public roads and bridges under the control of MaineDOT are not subject to local zoning controls pursuant to <u>30-A</u><u>M.R.S.A. Section 4352</u>.

- *Federal Transportation Requirements Affecting State and Local Planning* MaineDOT, the Federal government, and other State agencies have agreements to thoroughly and expeditiously review a Project's environmental impacts. Specifically, MaineDOT and FHWA Maine Division have a Programmatic Agreement for processing actions classified as Categorical Exclusions (CEs). The agreement authorized MaineDOT to determine on behalf of FHWA whether a project qualifies for a CE specifically listed in 23 CFR 771.117. In addition, it authorizes MaineDOT to approve a CE on behalf of FHWA as a "Programmatic CE" pursuant to the Agreement. No separate review or approval of the CE by FHWA is required.
- *iv.* Assessments of Project Risks and Mitigation Strategies Potential project risks and related mitigation strategies are discussed in Table 7.

Table 7. Project Risk and Mitigation Strategies.

Project Risks	Mitigation
Presence of Atlantic Salmon in all river and stream crossings.	 Minimize permanent and temporary in-water structures. Plan construction sequence to avoid sensitive times for ATS life stages. Incorporate measures to avoid and minimize effects early in design and scheduling. Utilize avoidance and minimization measures during project construction to reduce potential effects from in-water work. Early coordination with U.S. Fish and Wildlife and Maine Department of Marine Resources to obtain best available information on species.
Presence of Brook Floater	• Minimize impacts by designing the bridge to 1.2 BFW and as a single span to avoid in water disturbance.
Flood damage due to 100-year storm for bridges 0561, 2159, and 5494.	Incorporate climate change resiliency into bridge design.
ROW acquisition and utilities coordination	• MaineDOT will apply their extensive experience with ROW acquisition and utility coordination well before construction commences.
Inflation	• MaineDOT will evaluate the workplan priorities to ensure their commitment to construction of these bridges.

III.Project Costs

See Attachments B, C, and D.

IV. Scalable Project Options

As the NOFO indicates, the State of Maine is eligible to receive no less than \$32,500,000 through the CHBP due to the state's population density being less than 115 individuals per square mile and more than fourteen percent (14%) of its bridges classified as in poor condition.

We are asking for \$38,784,000 for eleven rural bridges located throughout the state. This bundle is based on bridge condition and ability to fund replacement for these bridges. If we were to receive less than that requested amount, we would need to review the number of bridges in this bundle and/or funding availability to prioritize public safety and mobility. A reduction in the number of bridges would decrease the savings associated with bundling the eleven bridges identified.

Attachment A – Photos of Additional Bridges

Number	Condition	Year Built	Potential Capital Investment		
3420	Poor	1936	Replacement		
Huff Road over We	sserunsett Stream – C	Cornville – So	•		
<u>44° 83' 62.17" N, 6</u>	9° 65' 29.76" W				
		Nort	h end of pier bearing area crumbling		
Top of roadway sur	face looking east.	conc	rete CR.		
5123	Poor	1920	Replacement		
Cathance Road over	r Cathance River – To	own of Topsha	am – Sagadahoc Co.		
43° 96' 17.9" N, 69	° 93' 01.32" W				
Top of roadway sur			oulder supports with exposed rebar.		

Images Source: Stantec Inspection Reports

Attachment B – Budget

Bridge #	Town Name	PE/CE/ROW ¹	Total Construction Cost (Includes 15% Contingency)	Total Bundled Project Cost	Total Unbundled Project Cost	Non-Federal Funding	Other Federal Funding	CHBP Funding Request Amount	Percent of Total Eligible Cost
0382	Salem Twp	\$740,000	\$3,700,000	\$4,400,000	\$4,884,000	\$888,000	\$0	\$3,552,000	80%
0561	Chesterville/Vienna	\$680,000	\$3,400,000	\$4,080,000	\$4,488,000	\$816,000	\$0	\$3,264,000	80%
2090	Embden	\$780,000	\$3,900,000	\$4,680,000	\$5,148,000	\$936,000	\$0	\$3,744,000	80%
2159	Bowdoin/Lisbon	\$760,000	\$3,800,000	\$4,560,000	\$5,016,000	\$912,000	\$0	\$3,744,000	80%
2672	Caratunk	\$540,000	\$2,700,000	\$3,240,000	\$3,564,000	\$648,000	\$0	\$2,592,000	80%
3420	Cornville	\$860,000	\$4,300,000	\$5,160,000	\$5,676,000	\$1,032,000	\$0	\$4,128,000	80%
3921	Caratunk	\$920,000	\$4,600,000	\$5,520,000	\$6,072,000	\$1,104,000	\$0	\$4,416,000	80%
5123	Topsham	\$800,000	\$4,000,000	\$4,800,000	\$5,280,000	\$960,000	\$0	\$3,840,000	80%
5494	Orland/Bucksport	\$880,000	\$4,400,000	\$5,280,000	\$5,808,000	\$1,056,000	\$0	\$4,224,000	80%
5505	Carmel	\$560,000	\$2,800,000	\$3,360,000	\$3,696,000	\$672,000	\$0	\$2,688,000	80%
5559	Sangerville	\$560,000	\$2,800,000	\$3,360,000	\$3,696,000	\$672,000	\$0	\$2,688,000	80%
Total	· 2025 1 11	\$8,080,000	\$40,400,000	\$48,480,000	\$53,328,000	\$9,696,000	\$0	\$38,784,000	80%

¹All costs are in 2025 dollars

Attachment C – MaineDOT Match Letter



Janet T. Mills GOVERNOR

STATE OF MAINE Department of Transportation 16 State House Station Augusta, Maine 04333-0016

Bruce A. Van Note COMMISSIONER

March 13, 2025

The Honorable Sean Duffy, Secretary United States Department of Transportation 1200 New Jersey Ave, SE Washington, DC 20590

Re: Assurance of Matching Funds

Dear Secretary Duffy:

This letter serves as evidence of assurance by the State of Maine Department of Transportation (MaineDOT) that matching funds for the FY Competitive Highway Bridge Project grant application "Off-System Bridge Investment Project" submitted by MaineDOT are committed and will be provided.

MaineDOT is seeking \$38,784,000 in FY 2025 CHBP Grant funding, matched by \$9,696,000 in state funds. Should funds be received, this project is included in MaineDOT's 2025-2028 *Work Plan* and the Statewide Transportation Improvement Program (STIP) for 2025-2028. It is consistent with MaineDOT's long-range plan. MaineDOT is committed to providing these matching funds to the Federal funds requested.

MaineDOT is committed to providing these matching funds to the federal funds requested.

Sincerely,

a.V. Mato

Bruce A. Van Note Commissioner

Attachment D – Benefit Cost Analysis

[See attached Excel file]

Attachment E – Detour Maps

Cornville, Warren Bridge #3420 (Huff Road over Wesserunsett Stream)

NBI Detour = 6.0 miles

Net Detour Calculation: *Figure 2* shows the bypass detour of 7.3 miles (10 min), the original route from point A to B (*Figure 3*) is 1.4 miles (3 min), therefore the net detour is approximately 5.9 miles. Similar to NBI, use NBI value.

Average Detour Travel Speed: 45 mph = (7.3 miles / (10 min / 60))

Note: Abutment to abutment detour (*Figure 1*) is considered due to the remote locations of the bridges and the primarily residential use of these crossings.

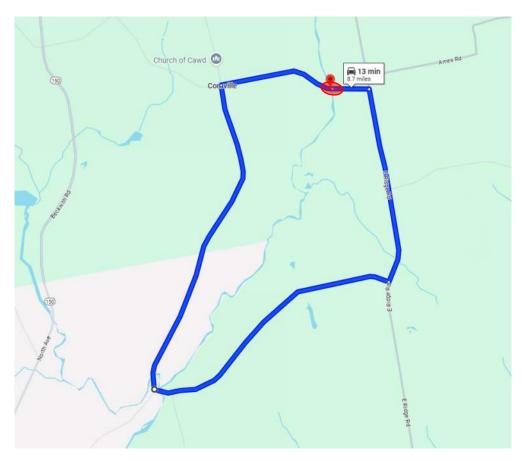


Figure 1 - #3420 Abutment to Abutment Detour Route (Red circle notes bridge location)

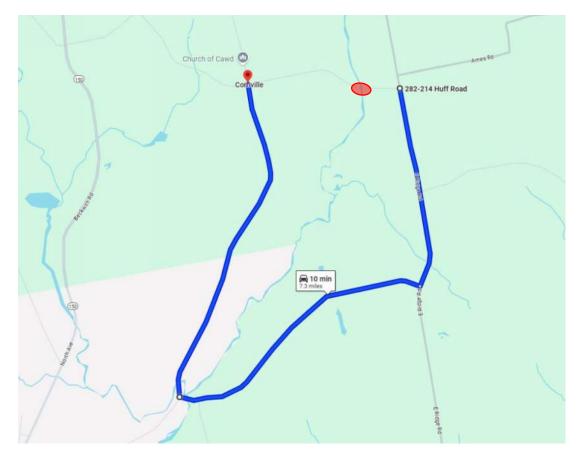


Figure 2 - #3420 Bypass Detour Route (Red circle notes bridge location)

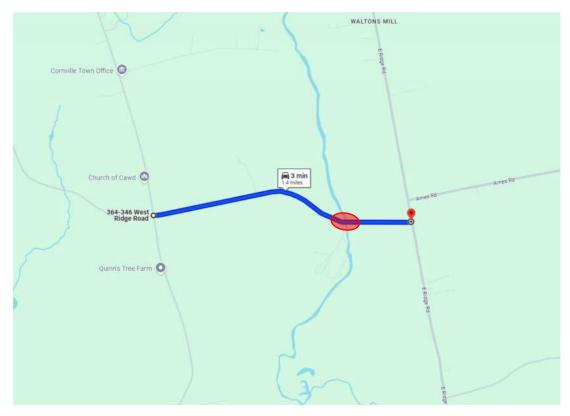


Figure 3 - #3420 Normal Route (Red circle notes bridge location)

NBI Detour = 1.0 miles

Net Detour Calculation: *Figure 5* shows 6.0 miles (9 min), the original route (*Figure 6*) from point A to B is 5.3 miles (9 min), therefore net detour is approximately 0.7 miles. Similar to NBI, use NBI value.

Average Detour Travel Speed: 40 mph = (6.0 miles / (9 min / 60))

Note: Abutment to abutment detour (*Figure 4*) is considered due to the remote locations of the bridges and the primarily residential use of these crossings.



Figure 4 - #5123 Abutment to Abutment Detour Route (Red circle notes bridge location)

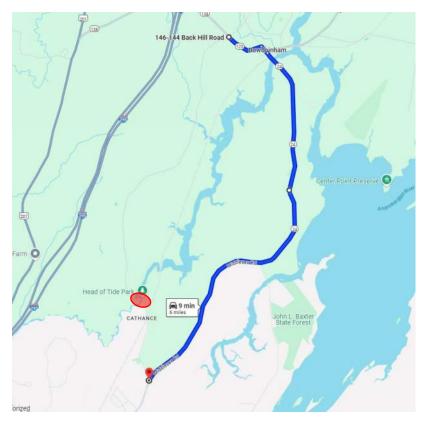


Figure 5 - #5123 Bypass Detour Route (Red circle notes bridge location)

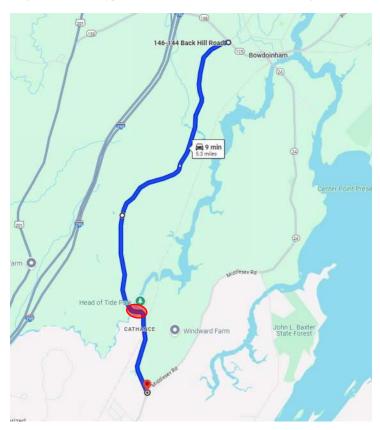


Figure 6 - #5123 Normal Route (Red circle notes bridge location)

Attachment F – Concept Plans

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

DESIGN LOADING

TRAFFIC DATA

Varies per location, refer to NBI data for traffic volumes. Additional information to be compiled during design phase, not available at this time.

HYDROLOGIC DATA

Data to be compiled and collected during design phase, not available at this time.

MATERIALS

Concrete:

concrete.	
Curbs & Transition Barriers	Class "LP'
Precast	Class "P'
All Other	

Reinforcing Steel:

Plain Reinforcing Steel	ASTM A 615, Grade 60
Low-Carbon Chromium	ASTM A 1035, Type CS, Grade 100
Glass Fiber Reinforced Polymer (GFRP)	ASTM D7957
Prestressing Strands	AASHTO M 203 (ASTM A 416),
	Grade 270. Low Relaxation

BASIC DESIGN STRESSES

Concrete:

Concrete, Class "A"	f 'c = 4,000 psi
Concrete, Class "P"	f 'ci = 6,500 psi
	f'c = 8,000 psi
Concrete, Class "LP"	f 'c = 5,000 psi

Reinforcing

ioreing.	
Plain Reinforcing Steel	f y = 60,000 psi
Low-Carbon Chromium Reinforcing Steel	f.y = 100,000 ps
Prestressing Strands	$F \mu = 270,000 \text{ ps}$
Glass Fiber Reinforced Polymer:	
#5 Bar	f fu = 100,000 ps
#6 Bar	f fu = 100,000 ps
#7 Bar	f fu = 95,000 psi
#8 Bar	f fu = 90,000 psi
Minimum Elastic Modulus	E = 6,150,000 ps

Minimum Nominal Design Tensile Strain e fu = 1.226%



LIST OF DR

Title Sheet Location Map..... General Plans Abutment Details Typical Sections

OFF-SYSTEM BRIDGE BUNDLE PLANNING STUDY CONCEPT PLANS FOR STANDARDIZED DESIGN

11 BRIDGE LOCATIONS

CONCEPT PLANS TO SUPPORT GRANT APPLICATION MARCH 13, 2025

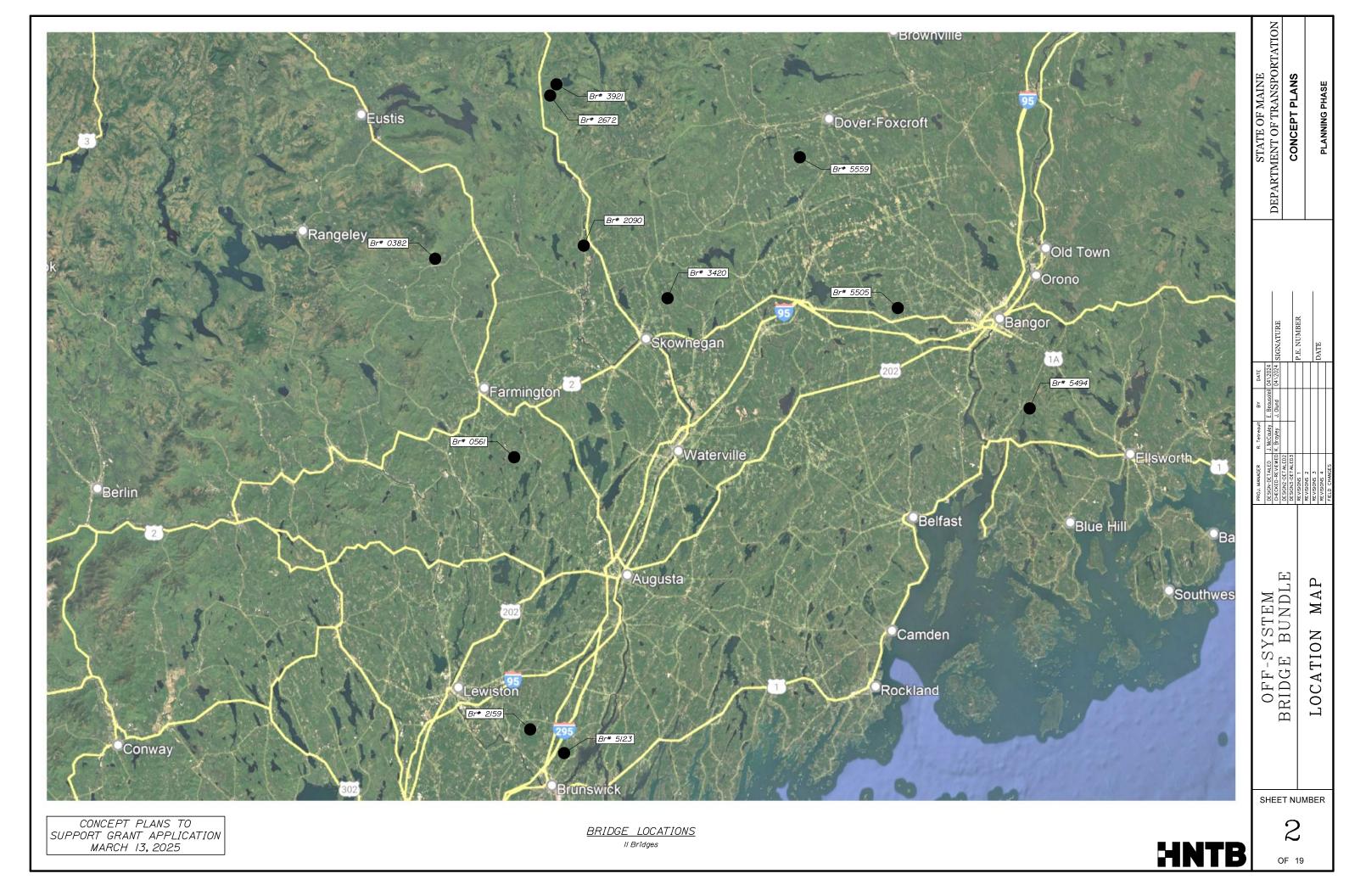
	PROJECT LOCATION:	Varies, see location map
	PROGRAM AREA:	Planning
HNTB	OUTLINE OF WORK:	Conceptual plans for bridge r to support grant application o

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2025

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	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	CONCEPT PLANS	PLANNING PHASE
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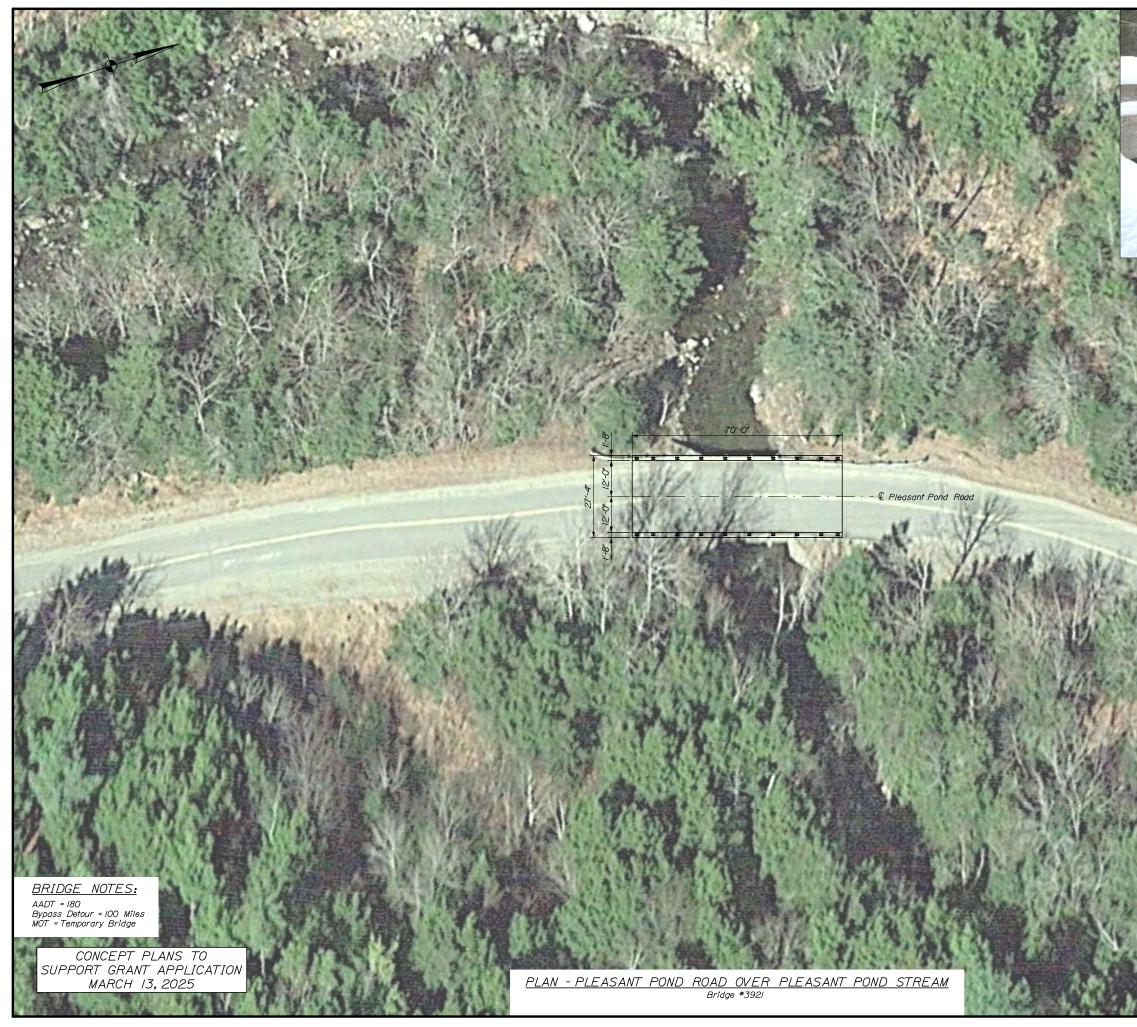
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	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	CONCEPT PLANS	PLANNING PHASE
EXISTING BRIDGE ELEVATION	DATE DATE 04/2024 04/2024 SIGNATURE	P.E. NUMBER	DATE
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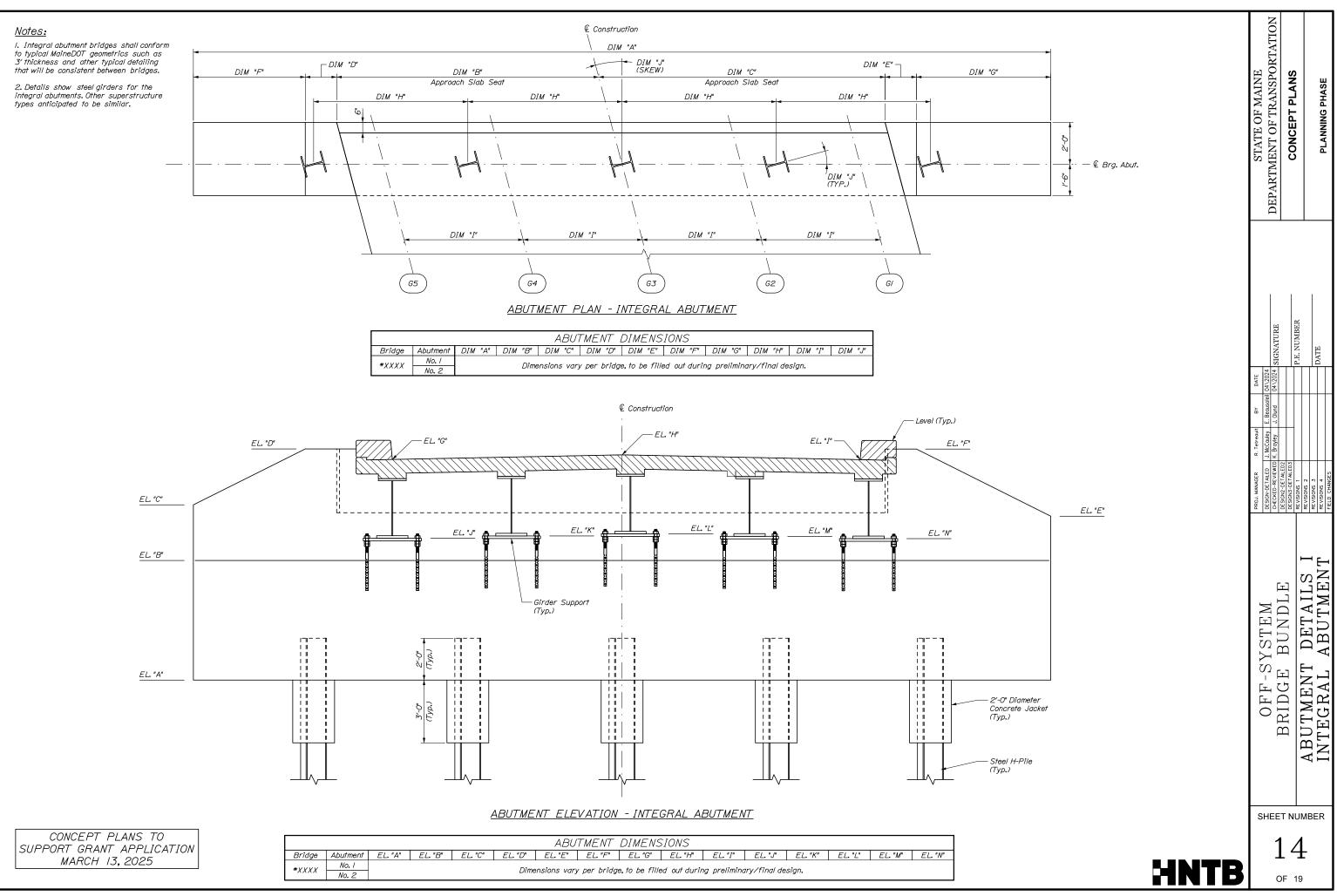
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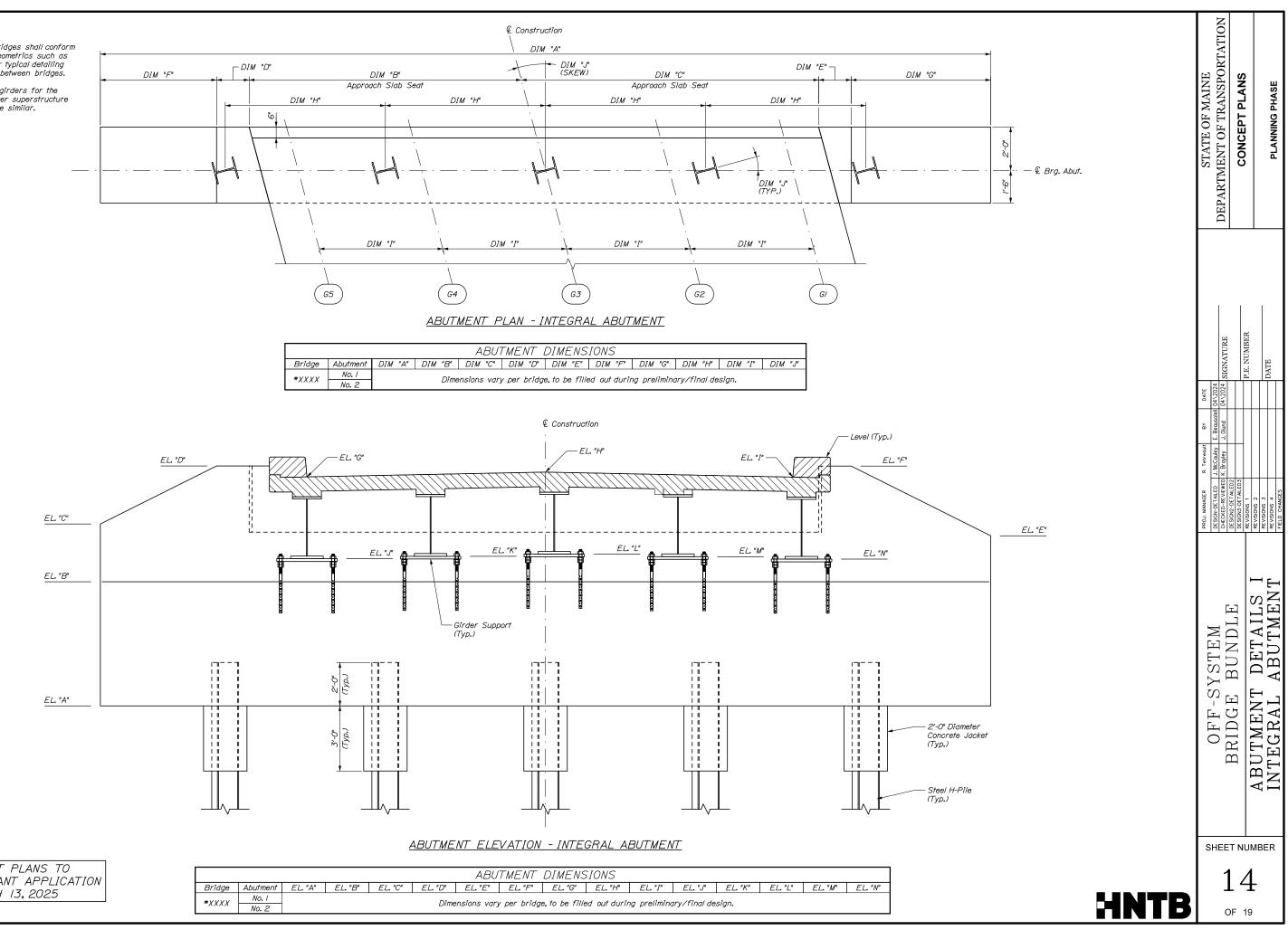


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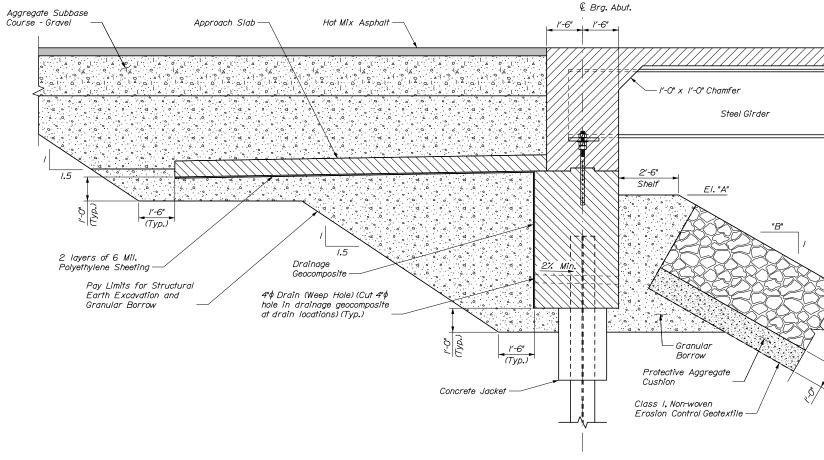
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to recent repair project, however remainder of superstructure and substructure condition are fair to poor condition. Discussion warranted could justify leaving existing bridge due to recent repair investment.		EET	NU		BE	R
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# XXXX	No. 1 No. 2				Dime	ensions vary	/ per bridg	e, to be fille	ed out durir	ng prelimina	ary/final de	sign.			

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INTEGRAL ABUTMENT BACKFILL DETAIL

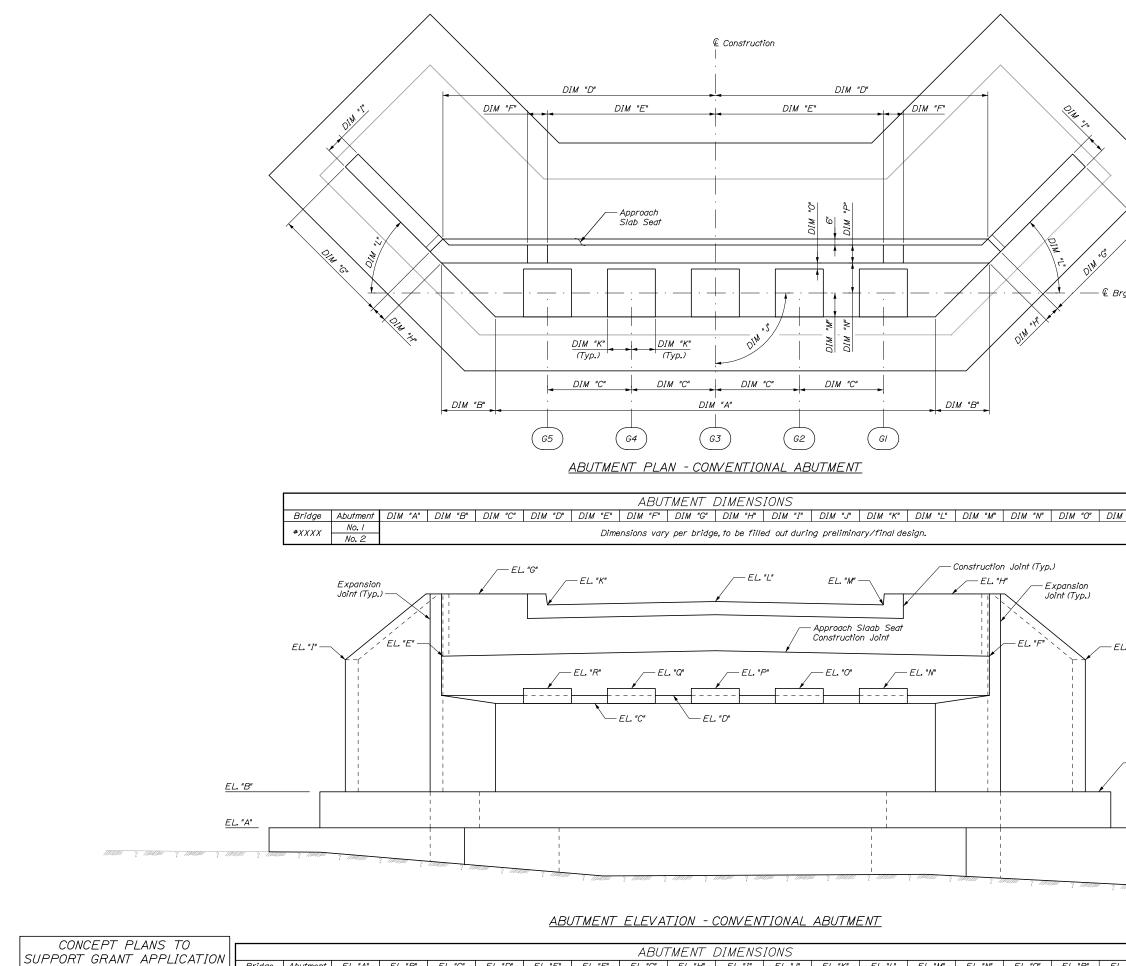
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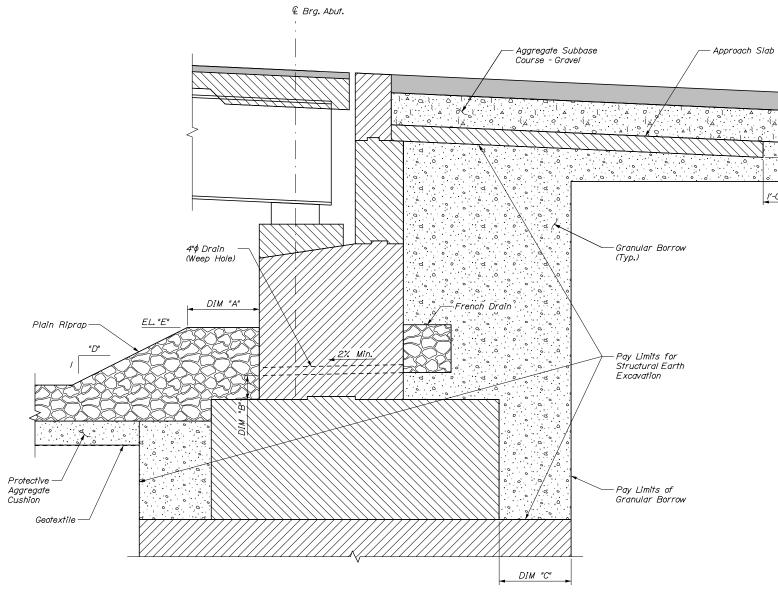
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	OFF-SYSTEM BRIDGE BUNDLE	ABUTMENT DETAILS II INTEGRAL ABUTMENT
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EL. "J" Footing Concrete Seal/Concrete Fill Approximate Existing Bedrock	OFF-SYSTEM BRIDGE BUNDLE	ABUTMENT DETAILS I CONVENTIONAL ABUTMENT
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CONVENTIONAL ABUTMENT BACKFILL DETAIL

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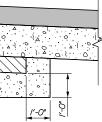
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CONCEPT PLANS TO SUPPORT GRANT APPLICATION MARCH 13,2025

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		FIELD CHANGES		



GENERAL NOTES ALL TYPICAL SECTIONS:

I. The following elements are anticipated to be standardized for all bridges either by the use of MaineDOT Standard Details, or Standard Detail Plan Sheets:

- Girders/Beams Details for each span length, including deflections
 Deck reinforcing size and spacing
 Bearings (elastomeric)

- Diaphragms Railing & Transitions Joints (APJs)
- Scuppers (if necessary)

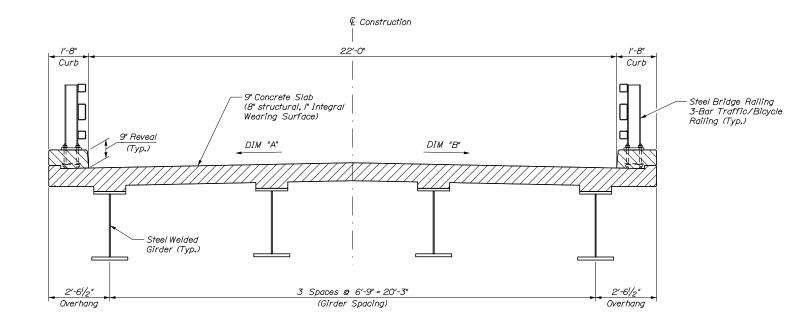
2. The following elements are not anticipated to be standardized and will require unique plan sheets for each bridge:

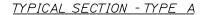
- General Plan, Profile & Cross Sections
- Boring Logs Hydraulics & Traffic Data
- Framing Plans & Deck Plans
- Bottom of Slab & Camber

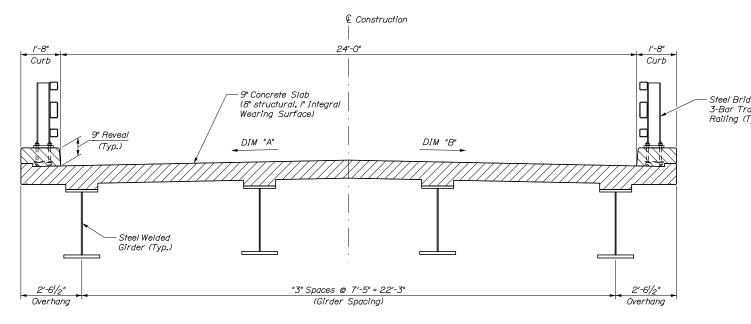
3. Majority of structures will be normal crown with 2% cross-slope. Some locations with require superelevation and geometrics will be tabulated to detail those locations in a later design phase.

STEEL GIRDER NOTES:

I. Two general typical section widths are anticipated, both with standard I'-8" wide curbs and either a 22' travel width or a 24' travel width. The superstructure types for these two configurations are broken into Types A through B.







TYPICAL SECTION - TYPE B

TYPICAL SECTION DIMENSIONS							
Bridge	DIM "A"	DIM "B"					
#XXXX	Dimensions vary per						
#XXXX	bridge, to be filled out during preliminary/final desian.						
#XXXX							
#XXXX							
#XXXX	1000						

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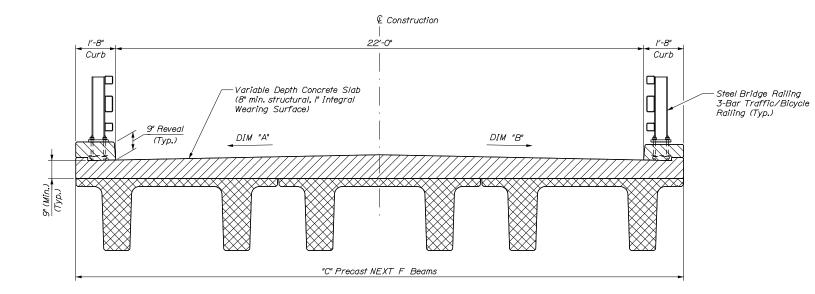
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		DESIGN2-DETALED2 DESIGN3-DETALED3 EFVISIONS 1	REVISIONS 2 REVISIONS 3 REVISIONS 3 REVISIONS 4 FIELD CHANGES	
	OFF-SYSTEM	BRIDGE BUNDLE	TYPICAL SECTION STEEL GIRDER	
HNTB	-	T NU L E		

Steel Bridge Railing 3-Bar Traffic/Bicycle Railing (Typ.)

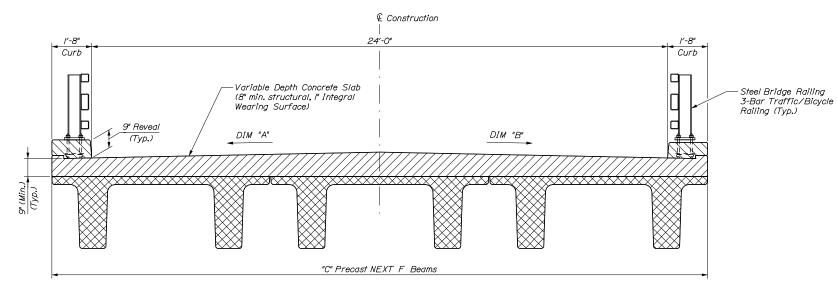
NEXT BEAM NOTES:

I.NEXT Beam 36F is assumed based on span lengths.

2. Two general typical section widths are anticipated, both with standard I'-8" wide curbs and either a 22' travel width or a 24' travel width. The superstructure types for these two configurations are broken into Types C through D.



TYPICAL SECTION - TYPE C



TYPICAL SECTION - TYPE D

TYPICAL SECTION DIMENSIONS						
Bridge	BEAM SIZE	DIM "A"	DIM "B"	DIM "C"		
#XXXX	Dimensional ways and bridge to be filled					
#XXXX						
#XXXX	Dimensions vary per bridge, to be filled					
#XXXX	out during preliminary/final design.					
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	OFF-SYSTEM	BRIDGE BUNDLE	TYPICAL SECTION NEXT BEAM	
HNTB	-	1 1 0 5 1		

Attachment G – Schedule

Bridge #	Town Name	Advertise	Construction Start	Construction Completion	Preliminary Design	Final Design/RFP Development	ROW Acquisition	NEPA Determination Type	NEPA	Scope of Project		
0382	Salem Twp	10/1/2027	6/1/2029	12/1/2030	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
0502	Sulein 1 wp	10/1/2021	0/1/2029	12/1/2000	1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
0561	Chesterville/Vienna	10/1/2027	6/1/2029	12/1/2030	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
0001			0/1/2027		1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
2090	Embden	10/1/2027	6/1/2029	12/1/2030	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
2070	LIIIUucii	10/1/202/	0/1/2027	12/1/2030	1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
2159	Bowdoin/Lisbon	10/1/2027	10/1/2027	6/1/2029	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
2139	Bowdoin/Lisbon		10/1/2027		1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
2672	Caratunk	10/1/2027	10/1/2027	6/1/2029	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
2072	Caratunk				1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
3420	Cornville	10/1/2027	6/1/2029	12/1/2030	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
5420	Comvine				1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
3921	Constructs	10/1/2027	10/1/2027	6/1/2029	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
3921	Caratunk		10/1/2027		1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
5122	Topsham	psham 10/1/2027	10/1/2027	10/1/2027	10/1/2027	(/1/2020	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge
5123			10/1/2027	6/1/2029	1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
5404	Orland/Bucksport	rland/Bucksport 10/1/2027	10/1/2027 12/1/2030	8/30/2032	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
5494					1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
5505	Carmel	10/1/2027	/2027 12/1/2030	8/30/2032	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
5505				0/30/2032	1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		
5550	Sangerville	e 10/1/2027	027 12/1/2020	8/20/2022	1/1/2026 -	1/1/2027 -	6/1/2026 -	Categorical	1/1/2026 -	Bridge		
5559			12/1/2030	8/30/2032	1/1/2027	9/30/2027	9/30/2027	Exclusion	8/31/2027	Replacement		