



Alaska Department of Transportation & Public Facilities

Workforce, Inflation, and Project Delivery

Ryan Anderson, P.E., Commissioner
Katherine Keith, PMP, PMI-ACP, Deputy Commissioner
John Binder, AAE, Deputy Commissioner

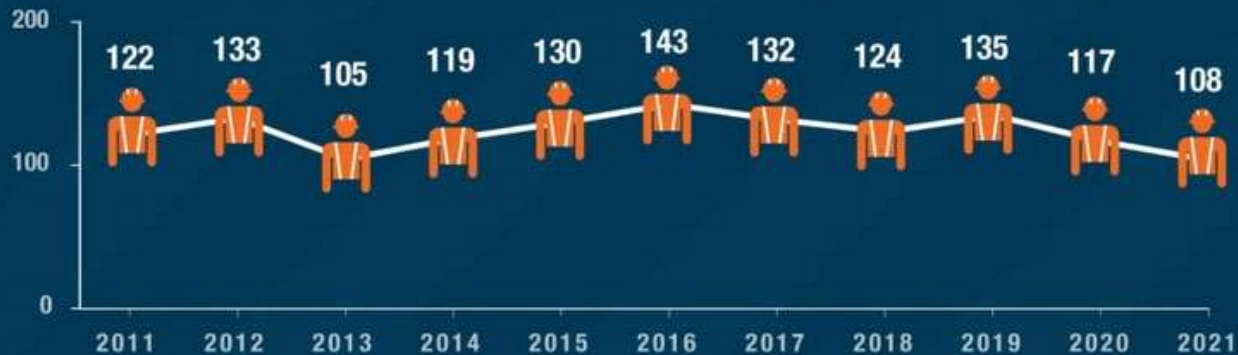
March 29, 2023

Our mission is to *Keep Alaska Moving* through service and infrastructure.

ROAD WORKERS NEED YOU TO S L O W D O W N



WORKER OCCUPATIONAL FATALITIES IN ROAD CONSTRUCTION SITES



Road workers rely on YOU to keep them safe at work.



Avoid Distractions



Read the Signs



Obey Posted Speed



Be Prepared for Sudden Stops



Be Careful Around Large Vehicles



Source: Bureau of Labor Statistics
For More Information: <https://www.workzonesafety.org>



U.S. Department
of Transportation
Federal Highway
Administration

BY LAND, BY AIR, BY SEA

It takes a team

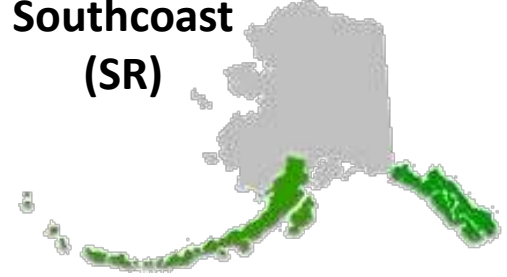
**Northern
(NR)**



**Central
(CR)**



**Southcoast
(SR)**



**Statewide
Aviation**



**Alaska International
Airport System**



**Alaska Marine
Highway System**



**Design and
Engineering Services**



**State Equipment
Fleet**



**Measurement Standards
& Commercial Vehicle
Compliance**



**Program
Development**



**Facilities Services
Division**



Civil Rights Office



STRATEGIC INVESTMENT AREAS

SAFETY

ECONOMIC VITALITY

STATE OF GOOD REPAIR (SOGR)

RESILIENCY

SUSTAINABILITY



APEX

Alaska Project Exchange

APEX

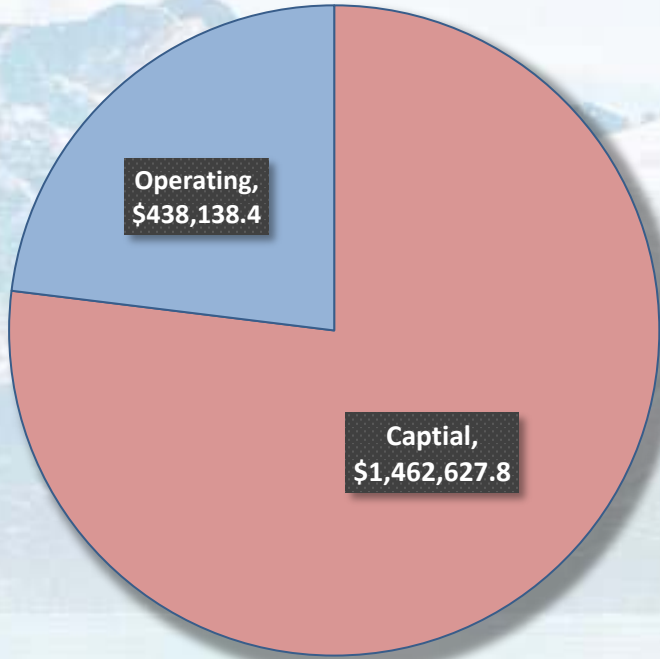
Alaska DOT&PF

Connecting Alaska with construction information
at **dot.alaska.gov/construction** & **511.alaska.gov**

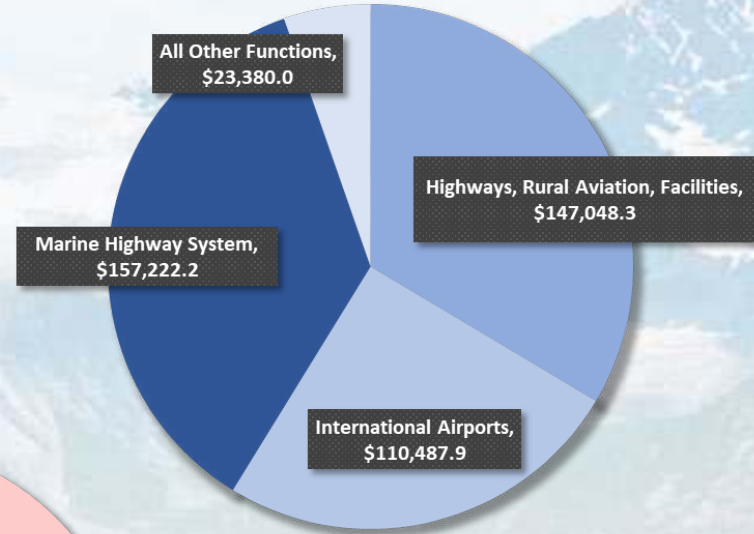


ALASKA DOT&PF BUDGETS & FUNDING

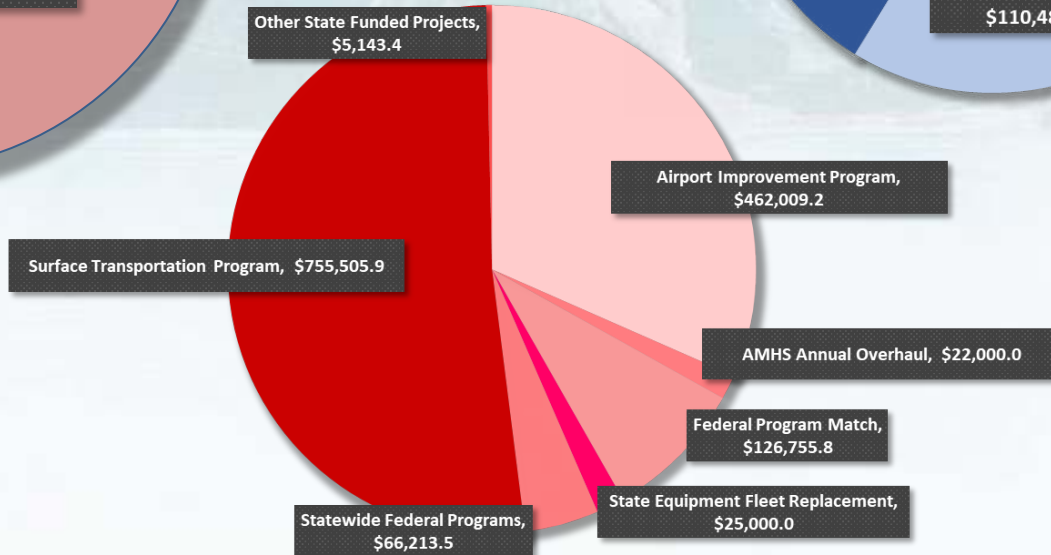
FY2024 Governors Proposed (\$1.9B)



Operating



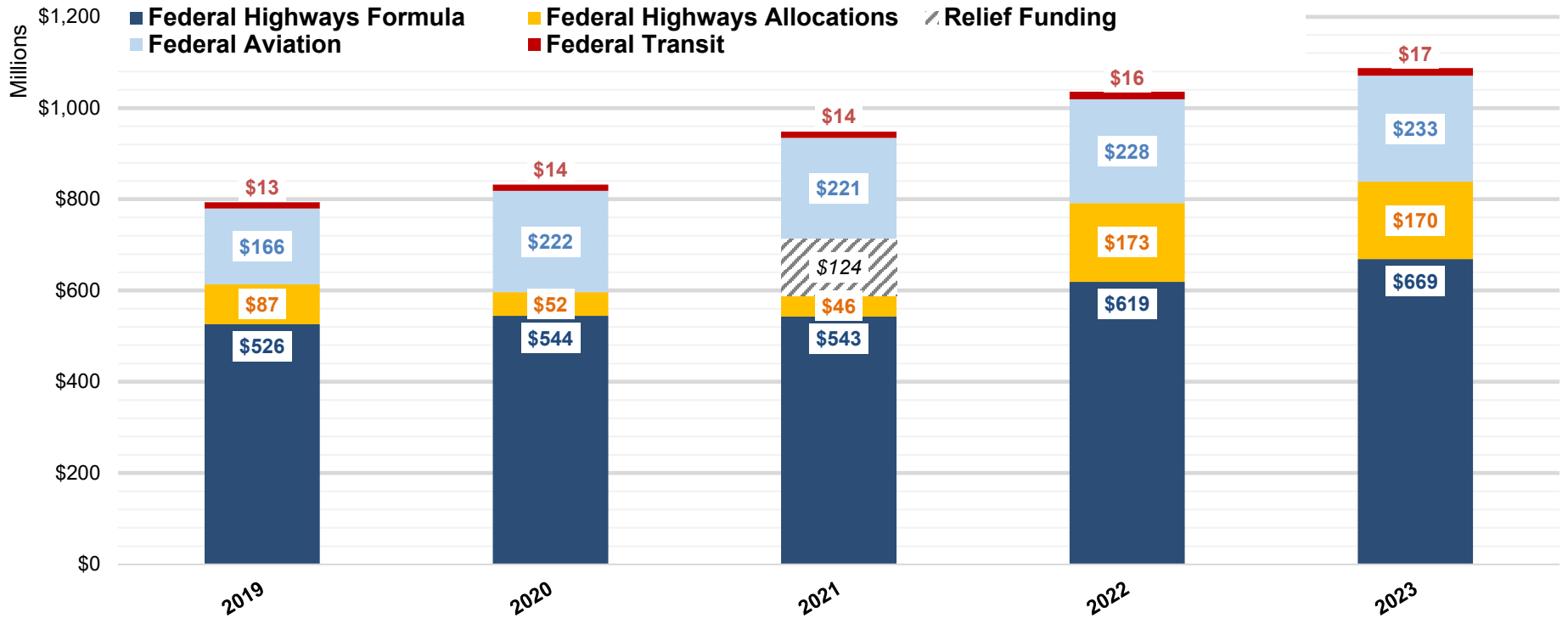
Capital



\$ in Thousands (1,000); Duplicate funding excluded



ALASKA'S TRANSPORTATION SHARE



Fiscal Year	Federal Highways		Relief Funding	Federal Aviation	Federal Transit	Total
	Formula	Allocations				
2019	\$526,269,793	\$87,364,461	\$0	\$166,000,000	\$13,493,968	\$793,128,222
2020	\$544,386,280	\$52,008,236	\$0	\$222,200,000	\$13,654,331	\$832,248,847
2021	\$543,009,285	\$46,434,890	\$124,402,044	\$220,500,000	\$13,677,640	\$948,023,859
2022	\$619,147,829	\$172,669,691	\$0	\$227,500,000	\$16,486,340	\$1,035,803,860
2023*	\$669,036,764	\$169,509,538**	\$0	\$232,500,000**	\$16,747,556	\$1,087,793,858
10 Year Total	\$5,341,913,925	\$611,858,895	\$124,402,044	\$1,974,900,000	\$127,606,344	\$8,180,681,208

*Additional revenue anticipated from discretionary grant awards in 2023

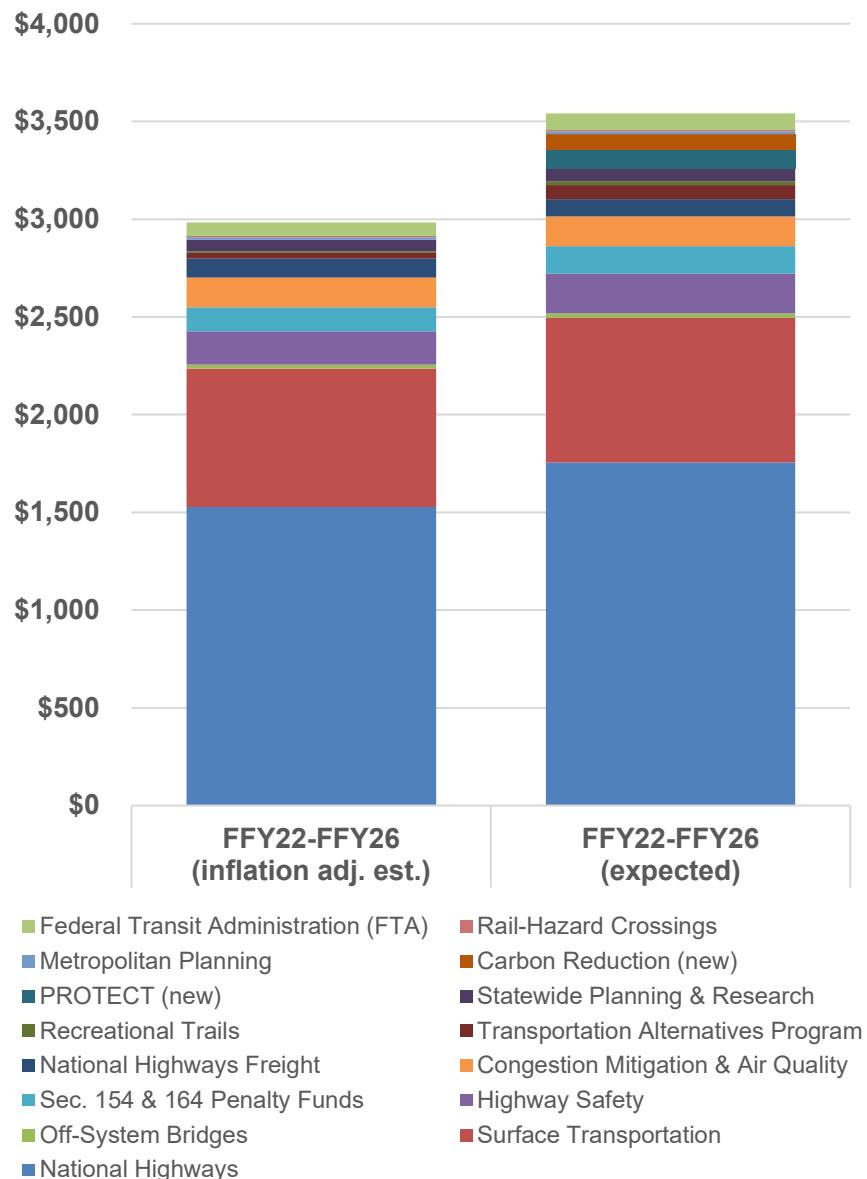
**Projected; Awaiting full year funding to be provided, post omnibus approval



FHWA and FTA FUNDING PROGRAMS

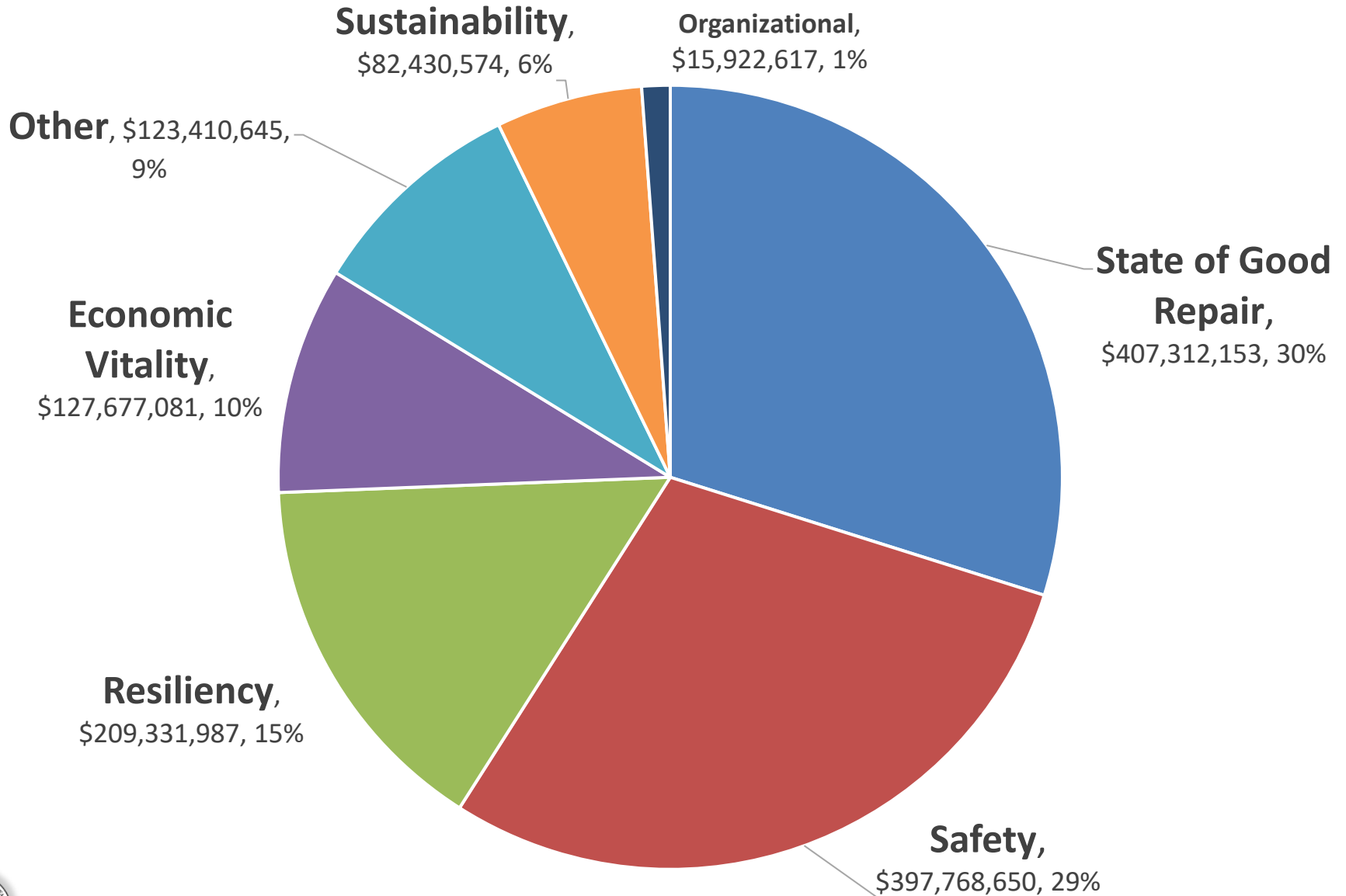
(in millions)

	FAST	IJA	FAST vs. IJA 5 Year DELTA	Growth % of Total
	FFY22-FFY26 (inflation adj. est.)	FFY22-FFY26 (expected)		
National Highways	\$1,527.90	\$1,755.40	\$227.50	41.90%
Surface Transportation	\$706.70	\$739.20	\$32.60	6.00%
Off-System Bridges	\$21.90	\$22.90	\$1.00	0.20%
Highway Safety	\$169.80	\$203.50	\$33.70	6.20%
Sec. 154 & 164 Penalty	\$123.30	\$140.30	\$17.00	3.10%
Congestion Mitigation & Air	\$152.60	\$152.90	\$0.40	0.10%
National Highways Freight	\$98.30	\$88.70	(\$9.60)	-1.80%
Transportation Alternatives	\$27.90	\$71.10	\$43.20	8.00%
Recreational Trails	\$8.10	\$20.70	\$12.60	2.30%
Statewide Planning	\$57.90	\$65.20	\$7.30	1.30%
PROTECT (new)	\$0.00	\$93.10	\$93.10	17.10%
Carbon Reduction (new)	\$0.00	\$81.90	\$81.90	15.10%
Metropolitan Planning	\$12.90	\$15.60	\$2.70	0.50%
Rail-Hazard Crossings	\$6.50	\$6.40	(\$0.10)	0.00%
Federal Transit	\$68.80	\$85.00	\$16.20	2.90%
TOTAL	\$2,982.60	\$3,541.90	\$559.50	



DOT&PF Strategic Investment Areas

SFY24 Governor Amend Capital Program



AIRPORT IMPROVEMENT PROGRAM (AIP) FOR DOT&PF AIRPORTS IN FFY 2022

FAA AIP airport capital improvement project funding for DOT&PF programs (~\$256M)

Cargo Entitlements (\$4.5M)

- Earned by airports with more than 100 million pounds landed weight

Primary Passenger Entitlement (\$36.1M)

- Earned by airports with more than 10,000 enplaned passengers and scheduled commercial service

Non-Primary Passenger Entitlement (\$27.7M)

- Earned by airports with fewer than 10,000 enplaned passengers annually

State Apportionment (\$19.4M)

- An area/population formula used after cargo/passenger entitlements calculated

Alaska Supplemental (\$19.0M)

- Congressional amount based on 1980 amounts

Discretionary (\$134M)

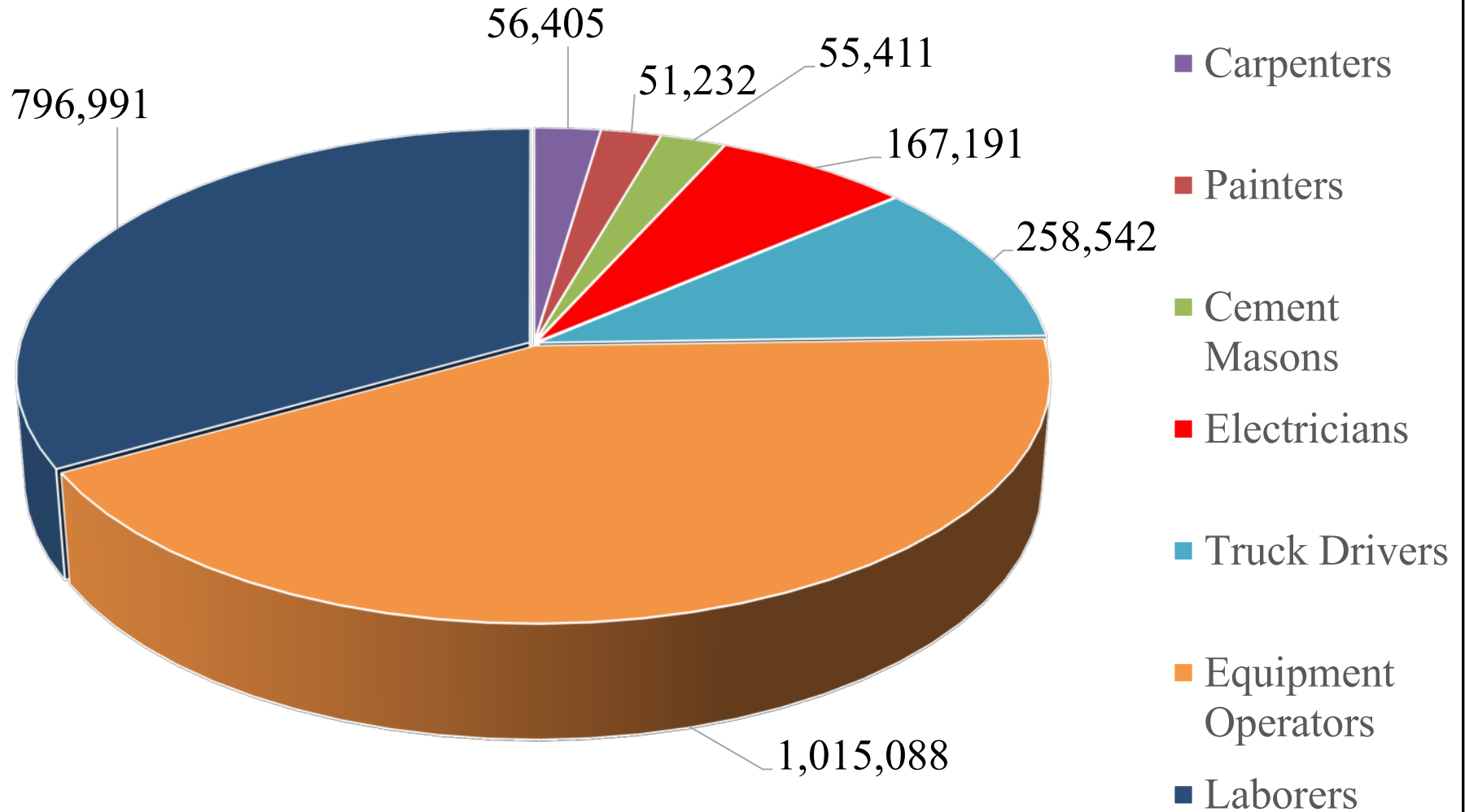
- What remains – divided among 50 states
- FAA Airport Environmental Mitigation PFAS Pilot (\$1.2M)

Supplemental Discretionary grants (\$19.6M)

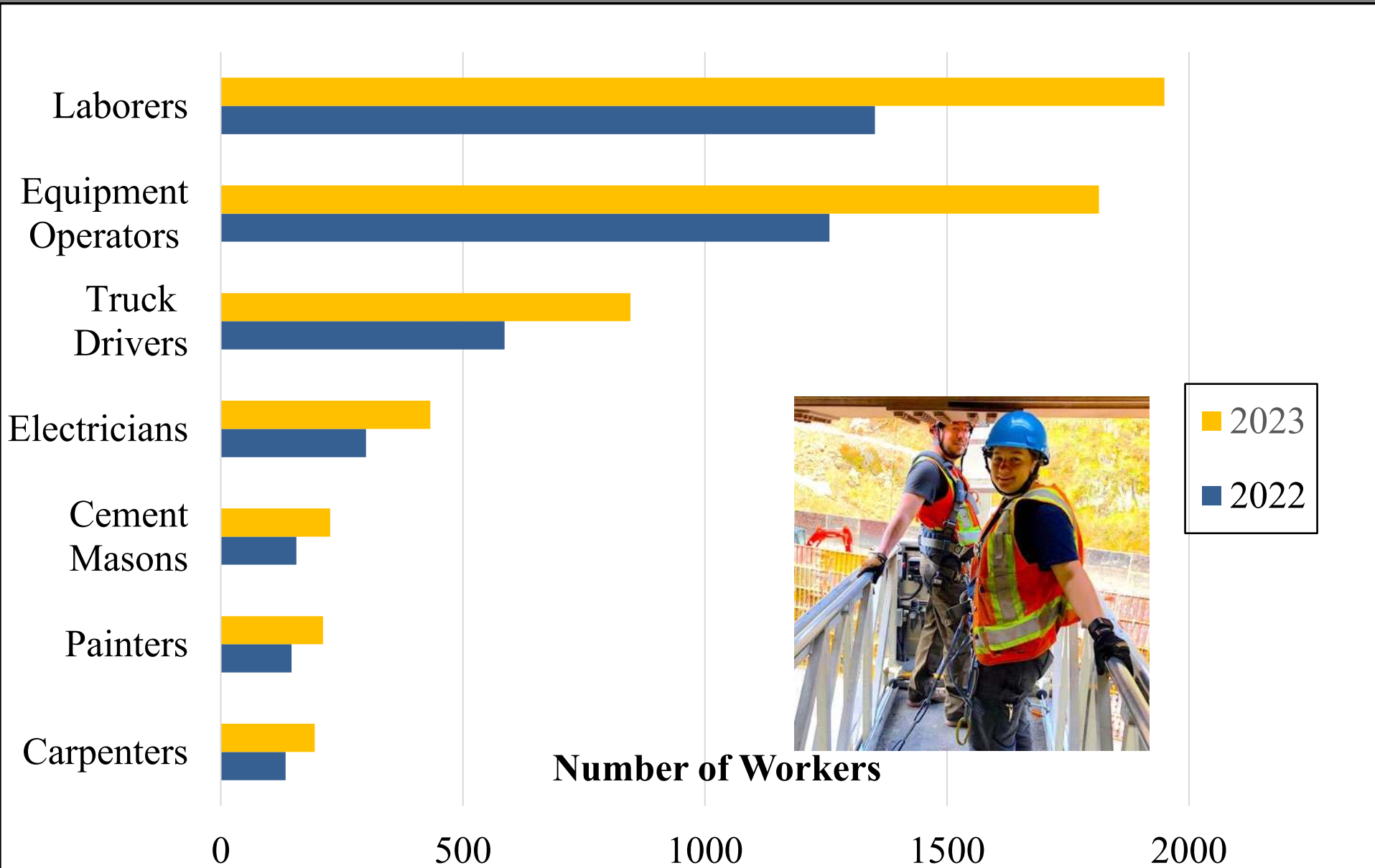
- Special additional federal GF appropriation – Projects Selected by FAA
- Kongiganak SREB (\$3.7M)



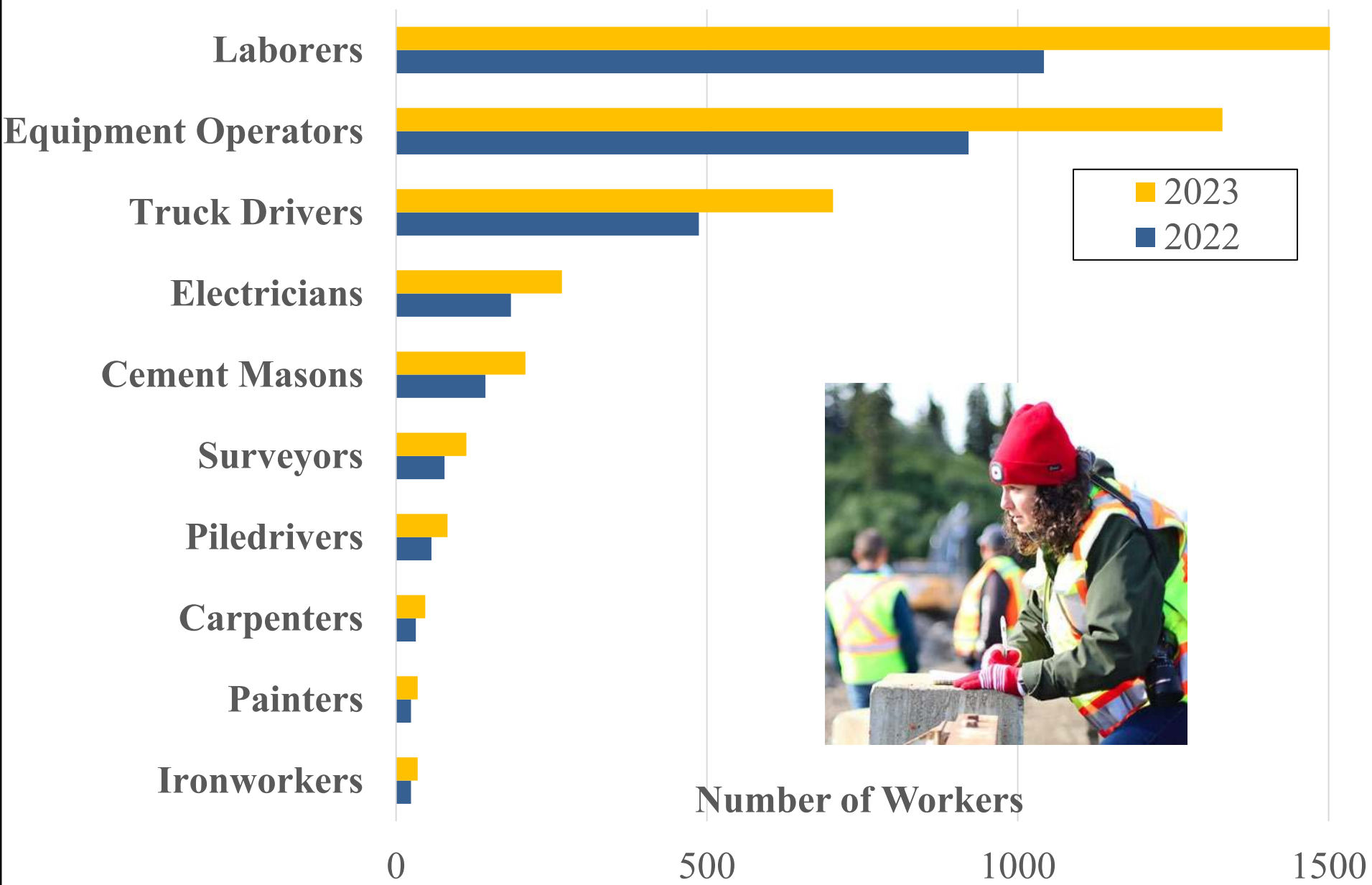
Estimated Hours by Job CY23



Forecasted Workers by Transportation Mode



Projected Highway Workers

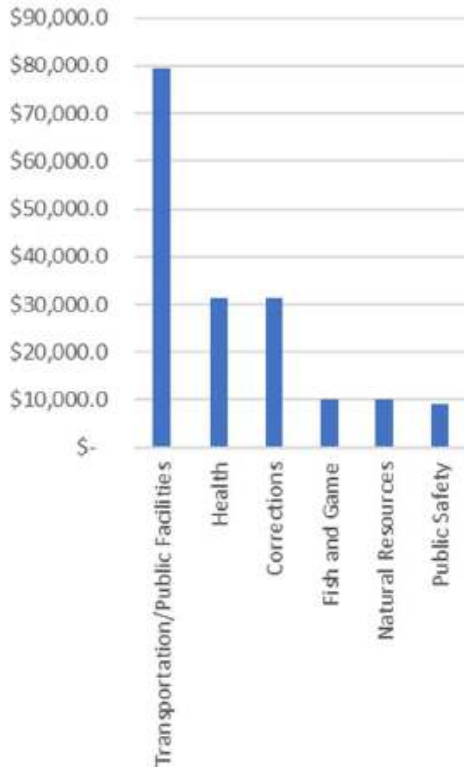


Training: Human Capital Plan

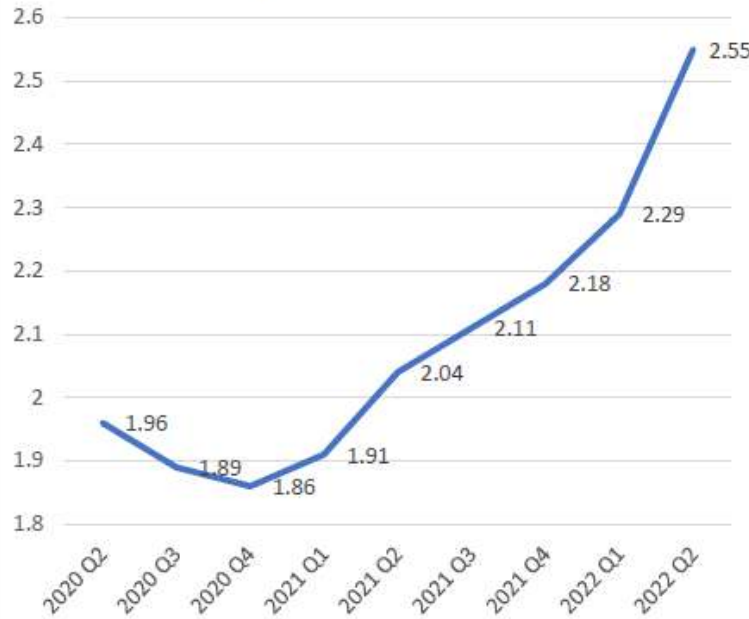


Inflation

Commodities Line
FY2023 Management
Plan



National Highway Construction Cost Index



Since the pandemic, highway construction costs have increased **30.1%**. The components of this index align and closely with elements of highway maintenance & operations.

<https://www.fhwa.dot.gov/policy/otps/nhcci/>

- Grading and Excavation
- Bridge
- Asphalt
- Concrete Pavement
- Concrete-Miscellaneous
- Concrete-Culverts
- Base Stone
- Drainage-Pipe
- Drainage-Inlets/Catch Basins
- Underdrain
- Traffic Control
- Guard Rail
- Fencing
- Signs-Permanent
- Striping/Pavement Marking
- Signalization
- Lighting
- Roadway Lighting/Electrical
- Grassing
- Erosion Control
- Retaining Wall
- Miscellaneous Stone/Riprap
- Clearing
- Painting Structures
- Buildings/ Miscellaneous Structures
- Utility-Water
- Utility-Gas
- Utility-Sewer
- Equipment/Labor

NHCCI COMPONENTS



Price Escalations

401-4.04 ASPHALT MATERIAL PRICE ADJUSTMENT.

Asphalt Material Price Adjustment. This subsection provides a price adjustment for asphalt material by: (1) additional compensation to the contractor or (2) a deduction from the contract amount.

1. This provision shall apply: a. To asphalt material meeting the criteria of Section 702, and is included in items listed in the bid schedule of Sections 306, 307, 308, 401 thru 408, 520, 608 and 609.

b. To cost changes in asphalt material that occur between the date of bid opening and the date on the certified bill of lading from the asphalt material refiner/producer.

c. When there is more than a 7.5 percent increase or decrease in the Alaska Asphalt Material Price Index, AAMPI, from the date of bid opening to the date on the certified bill of lading from the asphalt refiner/producer.

2. Provide the certified bill of lading from the asphalt material refiner/producer.

3. The AAMPI is calculated bimonthly on the first and third Friday of each month, and will remain in effect from the day of calculation until the next bimonthly calculation. The AAMPI is posted on the Department's Statewide Materials website at and calculated according to the formula posted there.

http://www.dot.state.ak.us/stwddes/desmaterials/aprice_index.shtml

4. Price adjustment will be cumulative and calculated with each progress payment. Use the AAMPI in effect on the date of the certified bill of lading from the asphalt material refiner/producer, to calculate the price adjustment for asphalt material. The Department will increase or decrease payment under this contract by the amount determined with the following asphalt material price adjustment formula:

For an increase exceeding 7.5 percent, additional compensation = $[(IPP - IB) - (0.075 \times IB)] \times Q$

For a decrease exceeding 7.5 percent, deduction from contract = $[(IB - IPP) - (0.075 \times IB)] \times Q$

Where:

Q = Quantity of Asphalt Material incorporated into project during the pay period, in tons as measured by the Engineer

IB = Index at Bid: the Bi-monthly AAMPI in effect on date of bid, in dollars per ton

IPP = Index at Pay Period: The bi-monthly AAMPI in effect on the date shown on the certified bill of lading from the asphalt refiner/producer, in dollars per ton





Federal Aviation
Administration



U.S. Department of Transportation
Federal Highway Administration

Chronology:

January 21, 2021: Executive Order 14005 - Ensuring the Future Is Made in All of America by All of America's Workers

April 18, 2022: OMB Guidance Memo to Executive Agencies on BABA Implementation (OMB Memo M-22-11)

April 28, 2022: Notice of Proposed Temporary Waiver of Buy America Requirements for Construction Materials

May 19, 2022: 180 Day Buy America Waiver extension (Good until November 10, 2022)

January 31, 2023: Department of Transportation: Waiver of Buy America Requirements for Construction Materials for Certain Contracts. contracts entered into before March 10, 2023, that result from solicitations published before May 14, 2022.

February 9, 2023: Proposed rulemaking or NPRM to revise guidance for grants and agreements in support implementation of the “Build America, Buy America” or BABA Act. Comments are due by March 13.

March 10, 2023: DOT&PF issues Modifications/Special Provisions to FHWA Contracts

March 17, 2023: Notice and Request for Comment on FHWA's Review of its General Applicability Waiver of Buy America Requirements for Manufactured Products. Comments Due **April 17th**.

April 4, 2023: DOT&PF issues Modifications to FAA Contracts



Design & Construction Standards

Standard Specifications for Airport Construction

April 3, 2023

 [2023 Airport Specifications](#) Compressed Zip File

General Contract Provisions	GCP
Drainage	Airport Specifications Table of Contents (All sections)
Fencing	Section 10: Definitions and Terms
Contractor Furnished Services	Section 20: Proposal Requirements and Conditions
Lighting Installation	Section 30: Award and Execution of Contract
Marine Aviation	Section 40: Scope of Work
Sitework	Section 50: Control of Work
Aggregate Base & Surface Courses	Section 60: Control of Materials
Stabilized Base Courses	Section 70: Legal Regulations and Responsibility to Public
Flexible Pavements	Section 80: Execution and Progress
Rigid Pavement	Section 90: Measurement and Payment
Surface Treatments	Section 100: Contractor Quality Control Program (CQCP)
Miscellaneous	Section 110: Method of Estimating Percentage of Material Within Specification Limits
Turfing	
Appendix	
Airport Special Provisions	

SECTION 106

CONTROL OF MATERIALS

106-1.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS. Replace the BUY AMERICA PROVISION with the following:

BUY AMERICA PROVISION. On projects using federal funds, the Contractor shall comply with the requirements of Public Law No. 117-58, Sections 70901-52 and 23 CFR 635.410, Buy America requirements, and shall submit a completed Material Origin Certificate, Form 25D-60, prior to award of the contract.

Provide a Certificate of Buy America Act Compliance Form 25D-62 from the supplier for each construction material, steel product, or iron product and each component that is manufactured predominantly of steel or iron, prior to incorporating any construction material, steel products, iron products or any components manufactured predominantly of steel or iron into the project.

Standard Specifications for Highways

Revised March 2023

x

These Standard Specifications are available in  format

Questions About Standard Specifications?

 Jonathan Wisewell
Standard Specifications Engineer
Phone: (307) 485-6962

File Name	Issue Date
February 2020 version	
2020 Standard Specifications: 3.1 MB	02/24/20
February 2020 Errata Sheet	
Summary of Changes from 2017 Edition	
2020 Standard Modifications	07/01/22
2020 Special Provisions	03/10/23
2020 List of Standard Modifications and Special Provisions	03/10/23
6"x6" Version 2020 SS/SPC (for hard copy publishing)	
March 2017 version	
2017 Standard Specifications: 2.7 MB	03/31/17
Summary of Changes from 2015 Edition	
2017 Standard Modifications	02/25/19
2017 Special Provisions	06/22/18
2017 List of Standard Modifications and Special Provisions	02/26/19



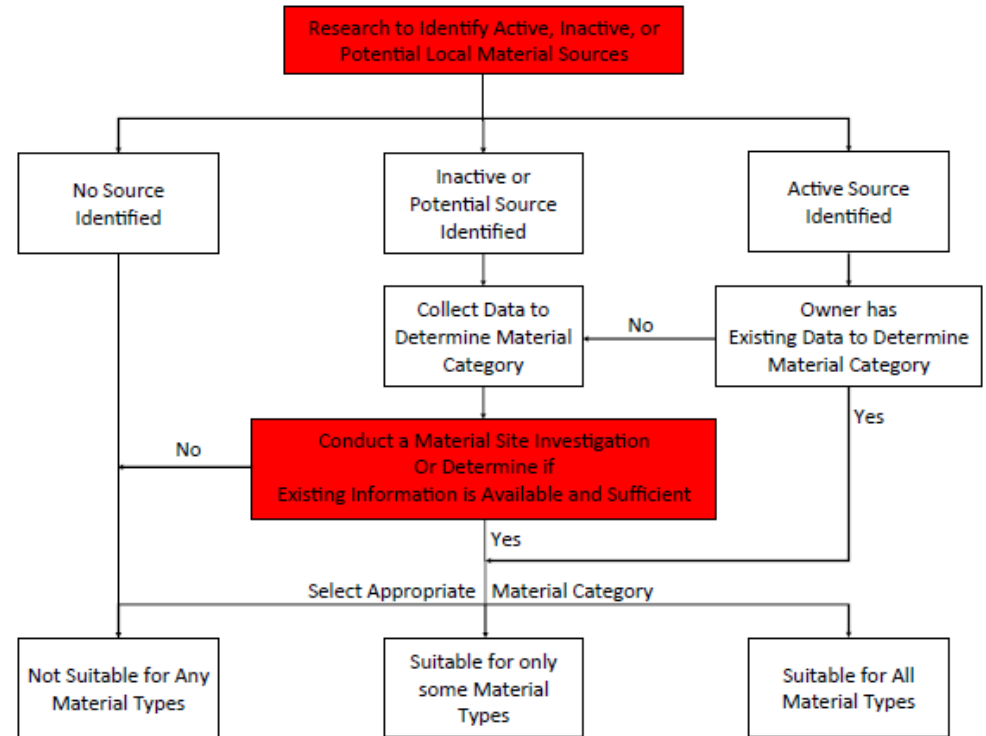
Rural Alaska Material Sites

Focus of Working Group

1. Determining Local Material Availability
2. Best Practices for Material Use
3. Ensuring a Fair Bidding Environment

BEST PRACTICES FOR USING LOCAL MATERIAL SOURCES IN RURAL PROJECT SITES

PART 1– DETERMINE LOCAL MATERIAL CATEGORY



Once Material Category is Determined
Proceed to Part 2 of Flow Chart



Oversize/Overweight Loads



Soliciting for new permitting system:

- (online dashboard, permit queuing, permit management, etc)

Assessing potential OS/OW project authorizations

Performing critical bridge analysis

Reviewing divisible load permitting criteria

Height: 14' 0" Width: 11' 0" Length: 78' 0" GVW: 89,999

Trip Definition
Trip Commands
Tools
Analysis Results & Directions

Analysis Passed with Restrictions
Failures: 0 Clearance, 0 Load, 0 Restrictions

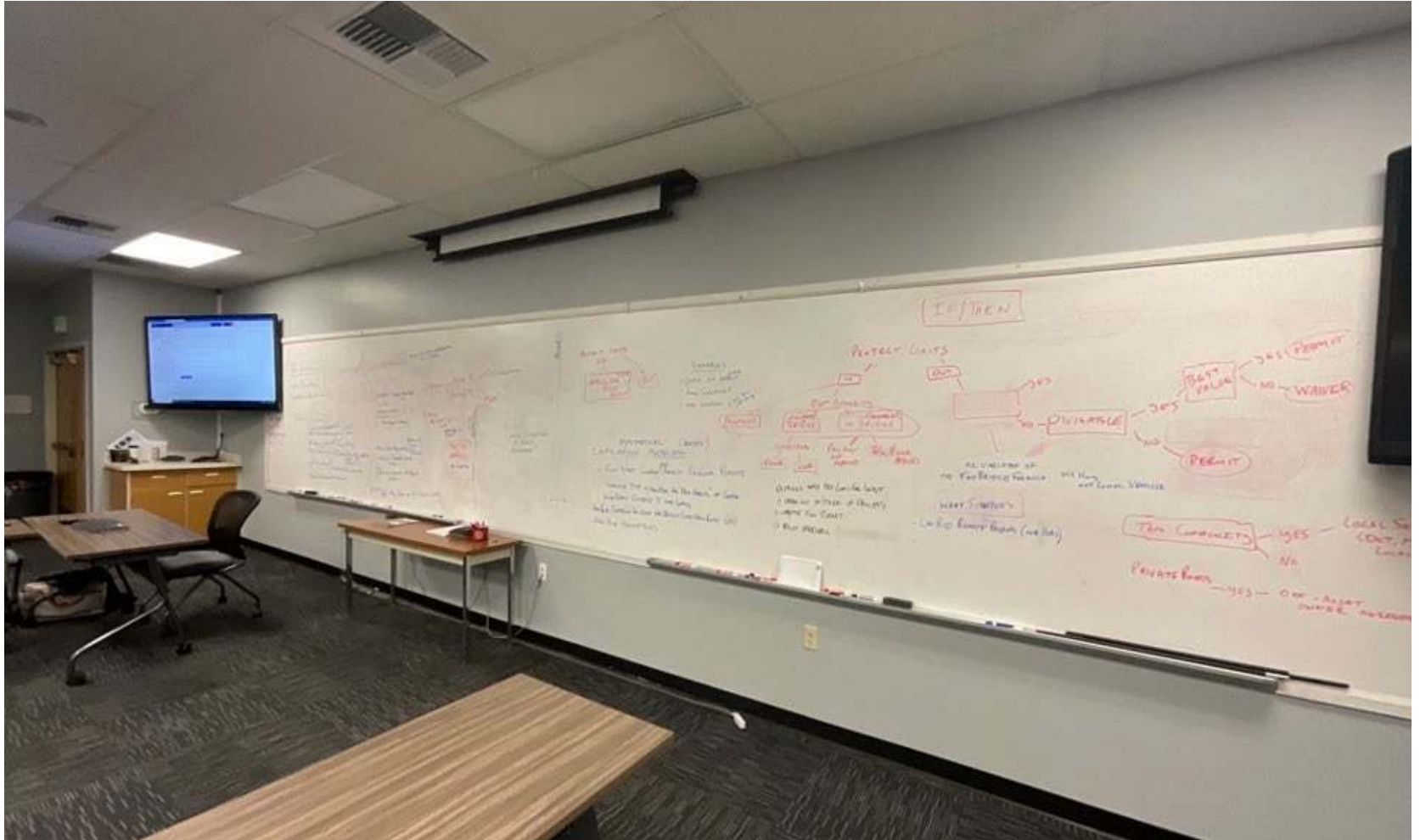
Analysis Passed with Restrictions
The highlighted trip has been analyzed without any clearance, load, or restriction failures.
This trip encounters restrictions that do not cause the trip to fail. Use the Restrictions link to view the restrictions that affect this trip.

Trip Description
START ON BRODENING HWY SEB AT DUNHILL RD Intersection at MP BALTIMORE 0.30(DMT TRUCK GATE, DUNDALK MARINE TERMINAL), I-695 SB(EXIT RAMP TO TOLL), MD-695C SB(EXIT TO I-695 NORTH, DUNDALK - SEAGIRT FIRST EXIT AFTER TOLL), I-695 NB, I-70 WB, I-68 WB, END ON I-68 at MP GARRETT 0.00(STATE BORDER OF WEST VIRGINIA)

Trip Length
206.53 miles

Count
Failures: 0 Clearance, 0 Load, 0 Restrictions

Oversize/Overweight Loads



TRX



TrX
NEW WAYS OF WORKING
PILOT PROGRAM

TransportationX

The TransportationX program involves new ways of working that are outcome focused, versus process focused, and emphasize community teaming, agile project management processes, and new ways of resourcing to achieve success. These efforts contribute to our vision of organizational excellence, and investment areas of Safety, State of Good Repair, Economic Vitality, Resiliency, and Sustainable Transportation. The Safer Seward Highway Project has been designated as an Alaska DOT&PF TransportationX project.



SAFER



**Seward
Highway**



ALTERNATIVE PROJECT DELIVERY

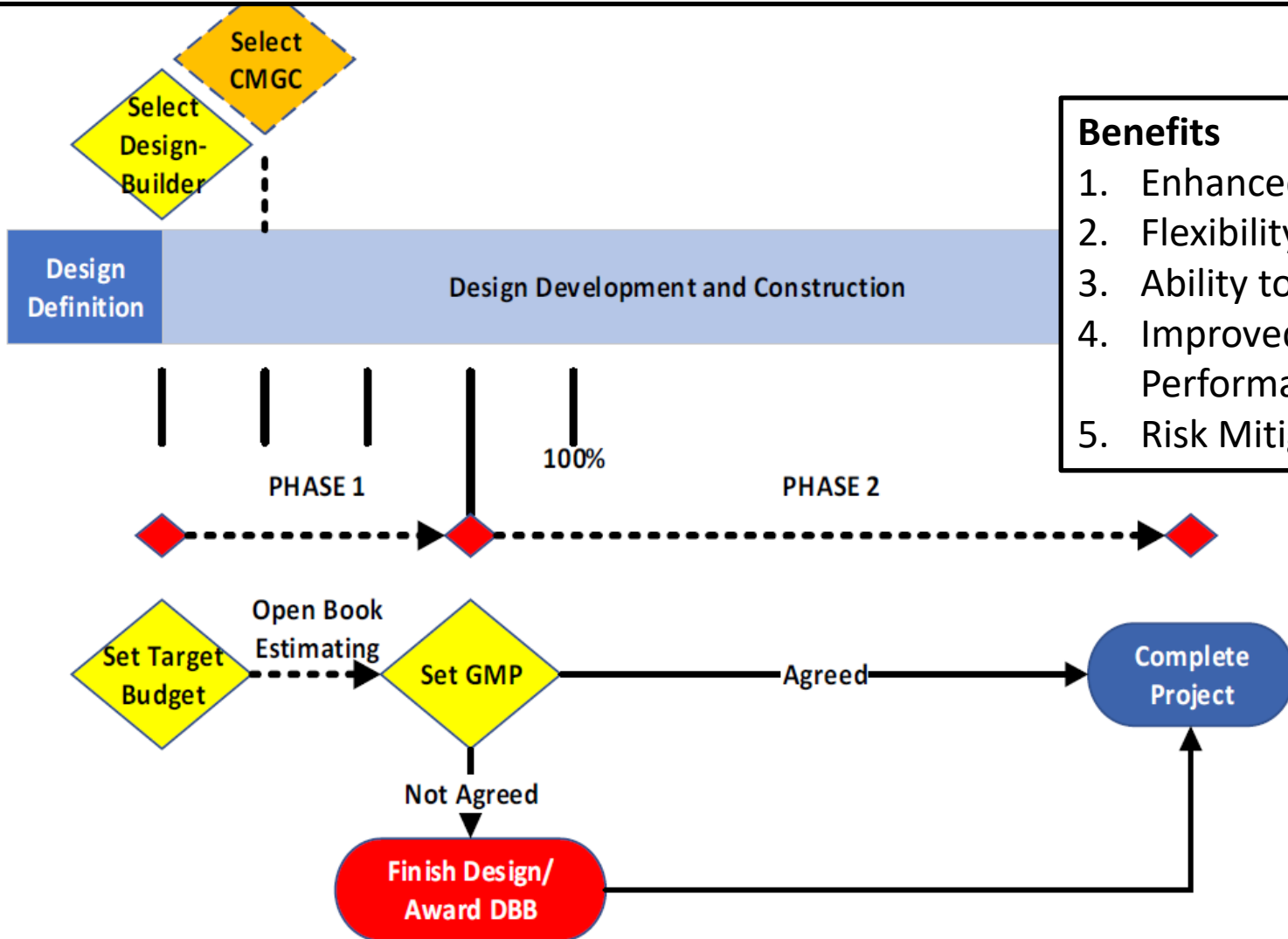


- Benefits**
1. Enhanced Collaboration
 2. Flexibility & Innovation
 3. Ability to Fast Track
 4. Improved Quality & Performance
 5. Risk Mitigation



ALTERNATIVE PROJECT DELIVERY

Construction Manager/General Contractor and Progressive Design-Build

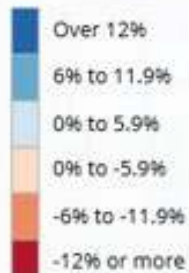


Benefits

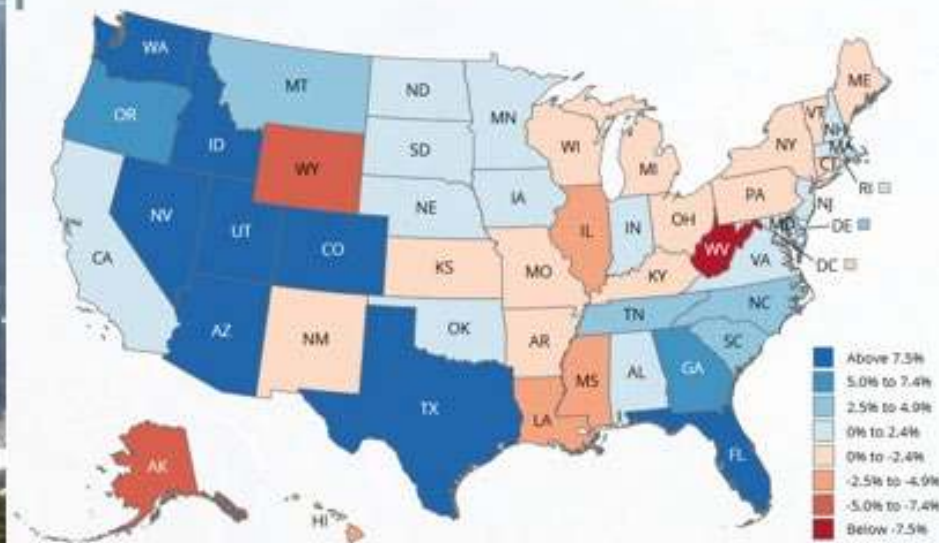
1. Enhanced Collaboration
2. Flexibility & Innovation
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4. Improved Quality & Performance
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ECONOMIC VITALITY: ALASKA AND OUTMIGRATION AND DECLINE IN WORKING AGE

Percent change in working-age population, 2013-2022



Growth or loss in the working-age population by state from 2013 to 2021



Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section



LAST FUNTIER



THANK YOU.

Ryan Anderson, P.E.

Commissioner

907-465-3900

DOT.Commissioner@Alaska.gov



*Northern lights dance over the Tazlina
Maintenance Station.*

Photo by Carolyn Conway, Alaska DOT&PF

