



Alaska Department of Transportation & Public Facilities

House Transportation Committee: Roads & Highways Overview *Presented on February 23, 2021*

Commissioner John MacKinnon
Deputy Commissioner Rob Carpenter
Admin. Services Director Dom Pannone

Northern Region Director Ryan Anderson
Central Region Director Wolfgang Junge
Southcoast Region Director Lance Mearig

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

Significant Span of Responsibility and Service

DEPARTMENT STRUCTURE

Statewide Aviation
Alaska International Airport System
Alaska Marine Highway System
Design and Engineering Services
Facilities Services Division
Measurement Standards & Commercial
Vehicle Compliance
Program Development
State Equipment Fleet

Northern Region
Central Region
Southcoast Region

INFRASTRUCTURE

11,894 lane miles of roads
74 staffed maintenance stations
235 rural State airports
2 International airports
12 AMHS ferries
35 ports of call
835 DOT&PF owned bridges
7,371 pieces of state equipment & vehicles
837 public buildings maintained
9 weigh stations
2.5 mile Anton Anderson Memorial Tunnel

ROADS/HIGHWAYS

M&O STATIONS

AIRPORTS

MARINE HIGHWAY

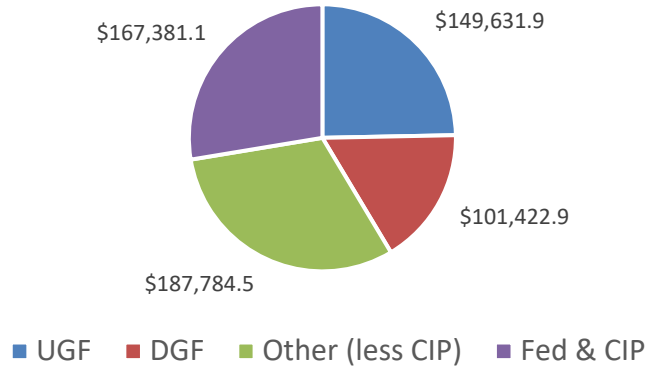
TAKE AWAY: The Department of Transportation & Public Facilities serves every Alaskan every day.

Department Budget

(\$ thousands)

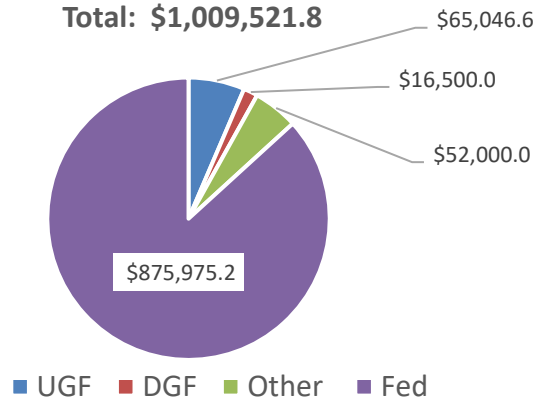
FY21 Operating Budget

Total: \$606,220.4

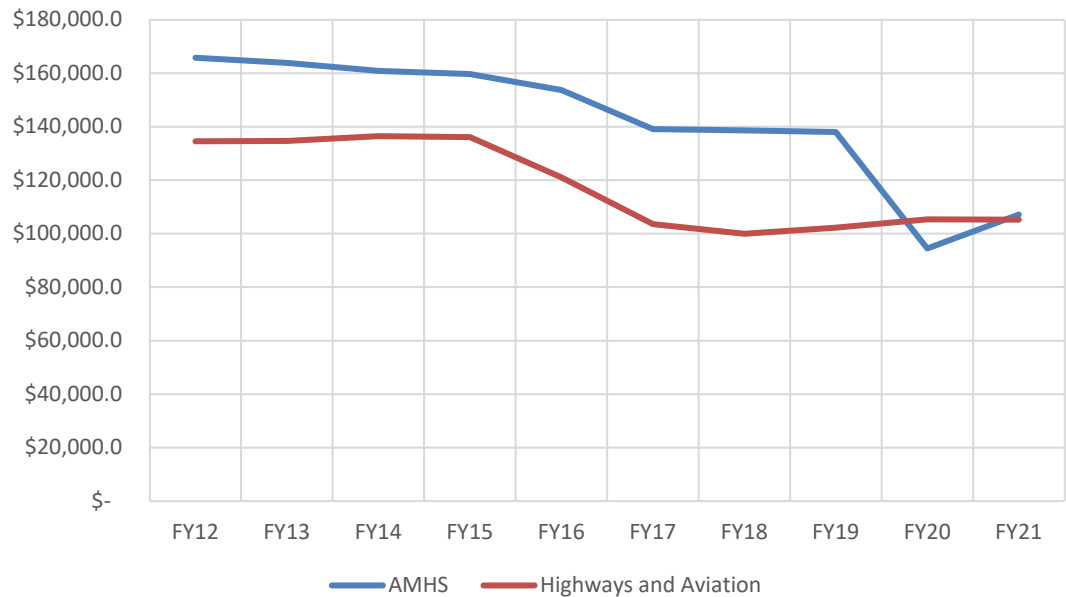


FY21 Capital Budget

Total: \$1,009,521.8



GF BUDGET (UGF & DGF)

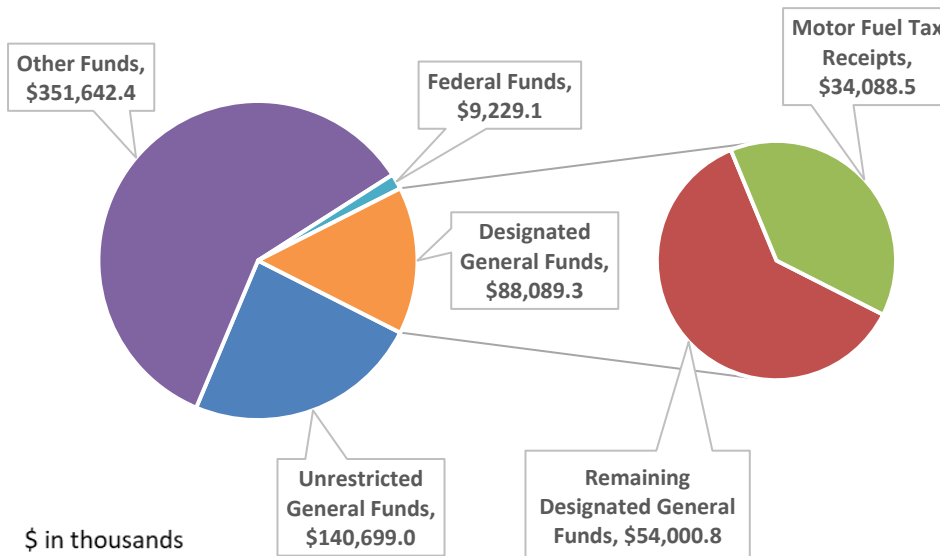


FY21 Positions	
Full-time	2,920
Part-time	281
Non-perm	137
	3,338

TAKE AWAY: Reductions to the general fund budget have a direct impact to agency maintenance and operations functions: roads/highways, rural airports and AMHS.

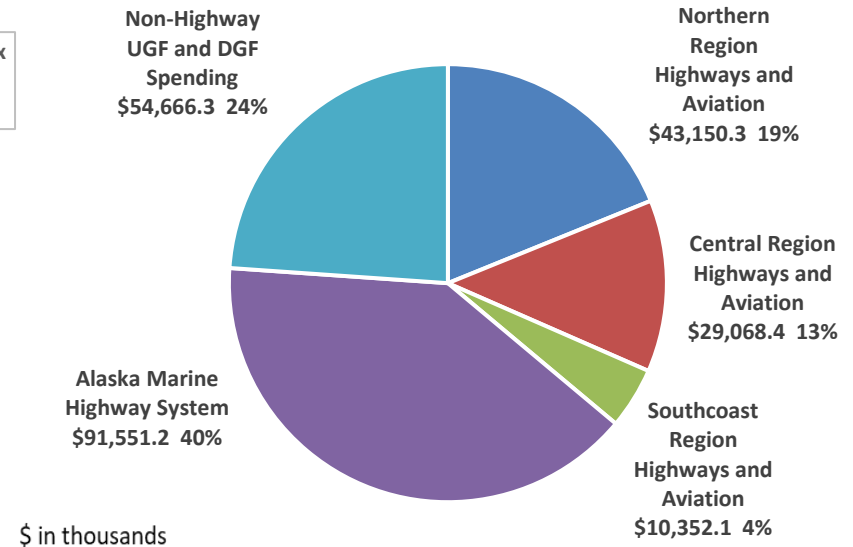
Roads and Highway – Funding and Positions

FY2020 DOT&PF Expenditures by Fund Source



Component PCN Count	Total
Central Region Highways and Aviation	180
Northern Region Highways and Aviation	322
Southcoast Region Highways and Aviation	92
Subtotal	594
Total Department Positions	3380
% of Highways and Aviation Positions	18%
*Positions within the regional Highways and Aviation components may have responsibilities for both highway and rural airport activities.	

FY2020 Highway UGF and DGF Expenditures



	1
NR Motor Fuel Tax Receipts	\$17,106.9
NR General Fund Program Receipts	\$292.5
NR Vehicle Rental Tax Receipts	\$500.2
NR Unrestricted General Fund	\$25,250.7
CR General Fund Program Receipts	\$166.5
CR Vehicle Rental Tax Receipts	\$3,807.0
CR Motor Fuel Tax Receipts	\$8,073.7
CR Unrestricted General Fund	\$17,021.2
SR General Fund Program Receipts	\$-
SR Vehicle Rental Tax Receipts	\$370.0
SR Motor Fuel Tax Receipts	\$4,574.1
SR Unrestricted General Fund	\$5,408.0

Roads and Highways - Overview

Damage in Haines - DOT&PF Maintenance & Operations
Photo by Matt Boron, DOT&PF - November 2020



A drone looks across University Avenue, down Geist Road from the Johansen Expressway. Reconstruction of this intersection took place in 2018.
Photo by Brandy Milles, DOT&PF



TAKE AWAY: Partnered with the construction industry to successfully mitigate the impacts of the pandemic while obligating a record \$729 million of federal highway transportation project funding in 2020.

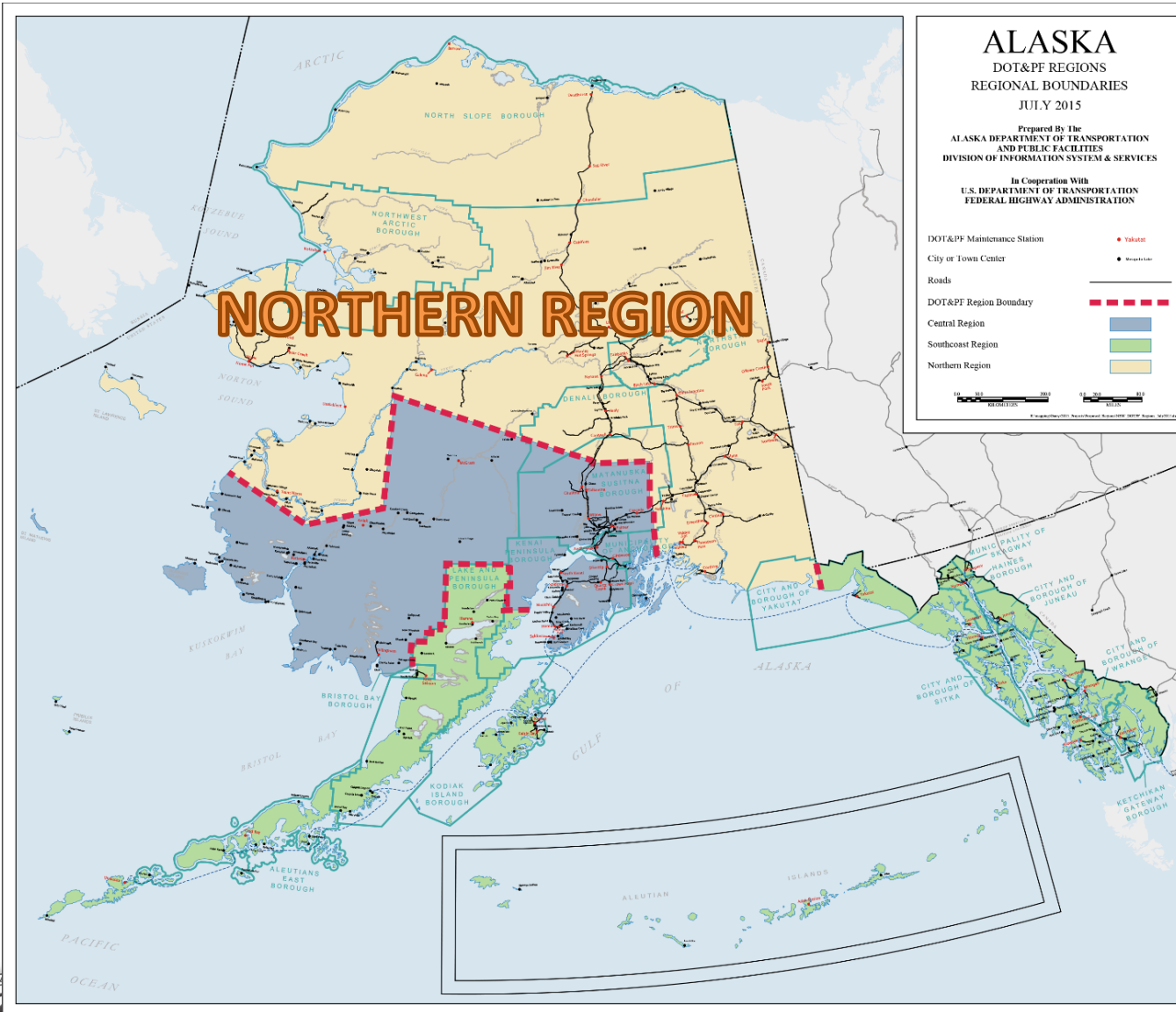
OPERATIONS

- Annual capital construction appropriation of over \$500M from Federal Highway Administration (FHWA)
- Challenge of winter road maintenance

PRIORITIES

- Work with FHWA to advance transportation improvements projects for public use.
- Spending federal construction dollars on maintenance and operations.
- Unrealized Motor Fuel Tax Receipts.
- Limited resources at some maintenance stations.
- Recruitment and retention.
- Replacing older equipment and infrastructure deferred maintenance.

Northern Region



NORTHERN REGION STATS

Road Lane Miles 8,450

Maintenance Stations 37

Maintained Airports 90

Bridges 390

Communities 124

Boroughs 6

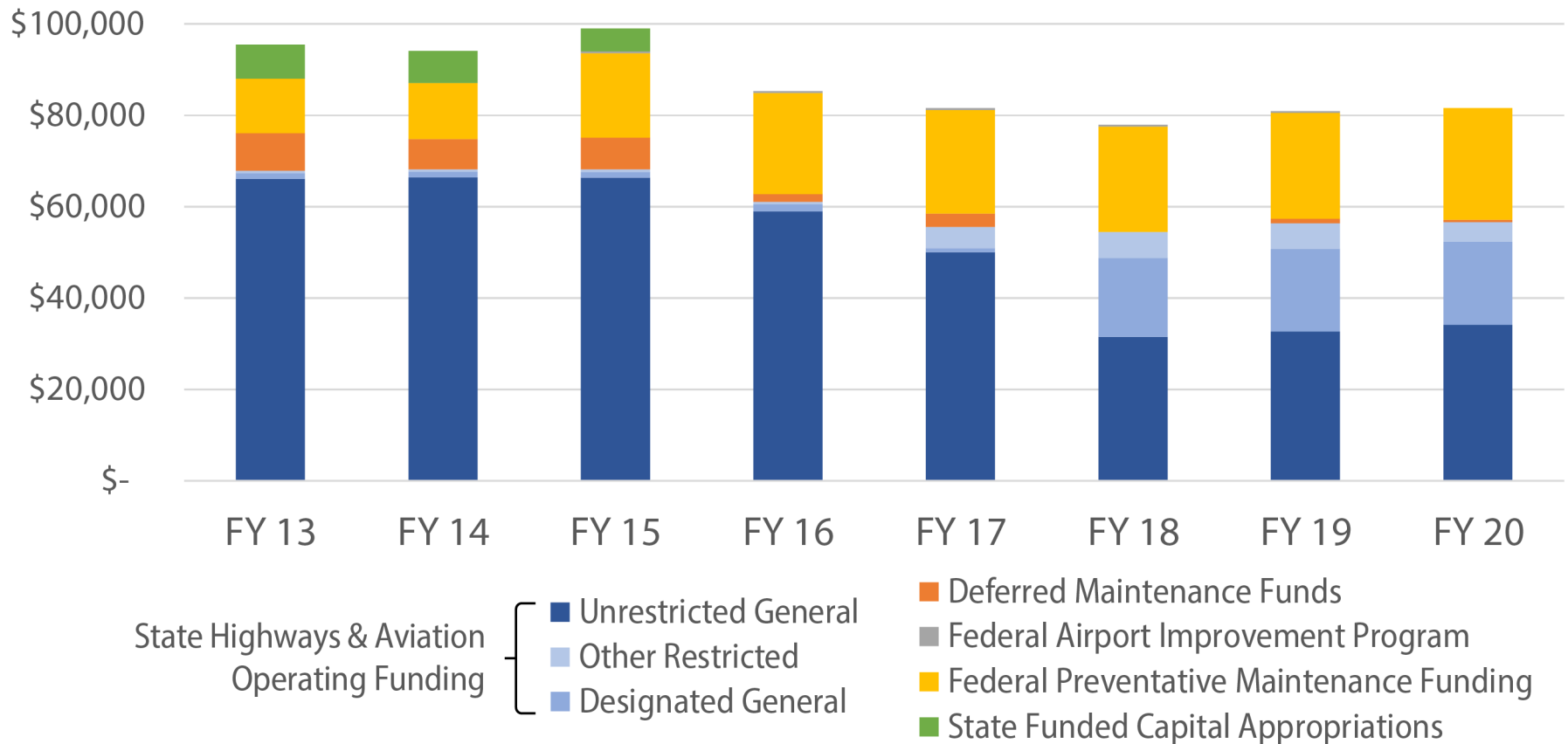
City Governments 50+

Tribes 100+

Metropolitan Planning Organization 1

Northern Region Overall Budget

NORTHERN REGION HIGHWAYS AND AVIATION MAINTENANCE AND OPERATIONS FUNDING



Maintenance Innovations and Accomplishments



WINTER STORM RESPONSE TIMES 2019-2020

Number of Events	391	Meet Targets 54% of time	
	Target Time to Restore Road	Average Time to Restore Road	
Priority 1	12:00	10:12	
Priority 2	18:00	26:53	
Priority 3	24:00	35:18	
Priority 4	30:00	38:24	



Northern Region Capital Program

2021 NORTHERN REGION CONSTRUCTION

Projected Contract Values	\$225-\$250 million
Total Number of Projects	46
State Highways Match	9.03%
State Airports Match	6.25%
Communities with Active Projects	11
Total Number of Projects	46
Highway Projects	35
Airport Projects	11



U.S. Department
of Transportation

**Federal Highway
Administration**



**Federal Aviation
Administration**

NORTHERN REGION

REGION-WIDE

31

2021 CONSTRUCTION

COLOR KEY

- Continuing into second year of construction
- Beginning construction in 2021



FAIRBANKS AREA

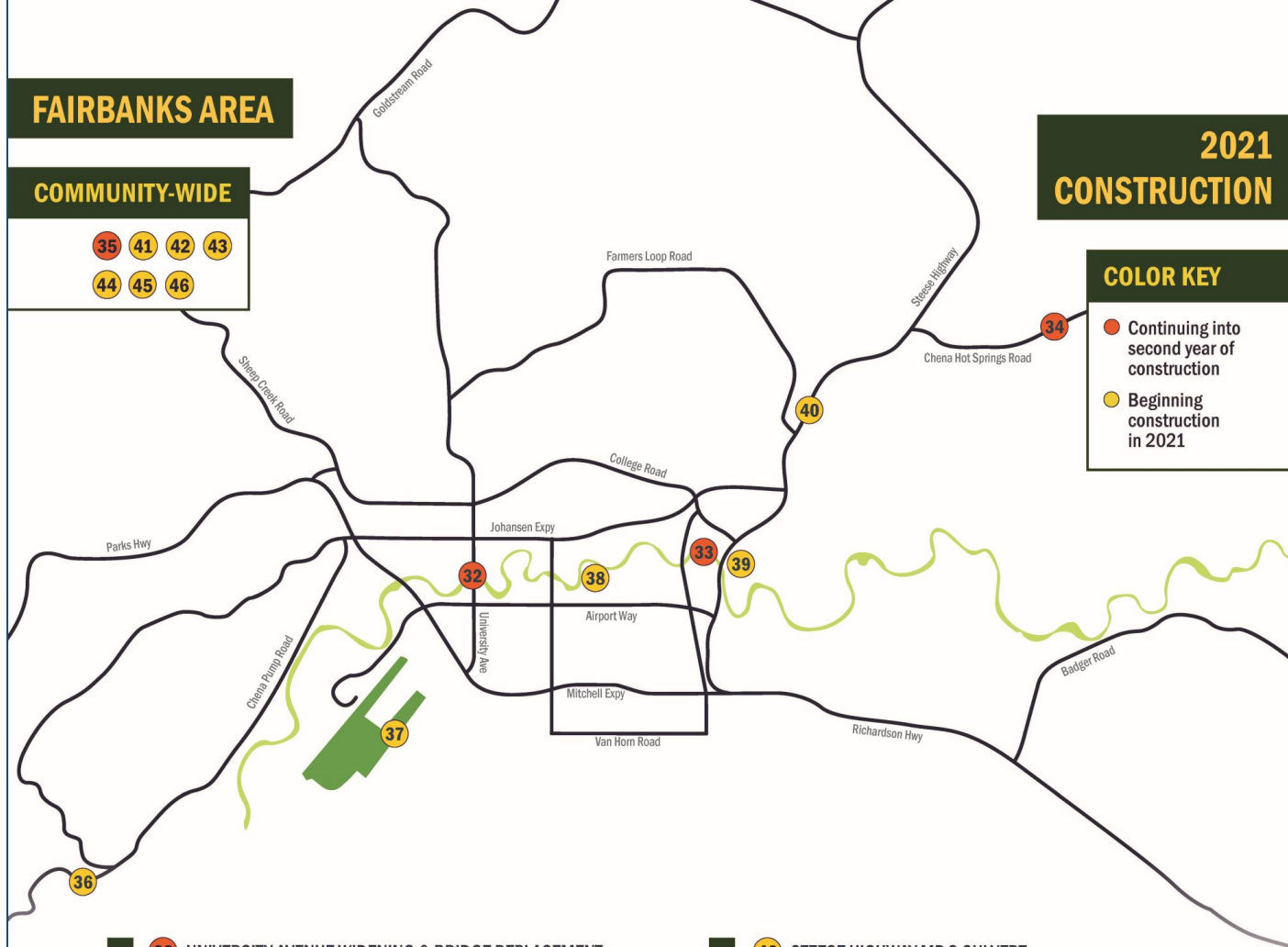
COMMUNITY-WIDE

35 41 42 43
44 45 46

2021 CONSTRUCTION

COLOR KEY

- Continuing into second year of construction
- Beginning construction in 2021



CONTINUING

- 32 UNIVERSITY AVENUE WIDENING & BRIDGE REPLACEMENT
- 33 WENDELL AVENUE BRIDGE REPLACEMENT
- 34 CHENA HOT SPRINGS ROAD MP 0-6 REHAB & ROUNDABOUTS
- 35 FAIRBANKS AREA CONCRETE BARRIER UPGRADES

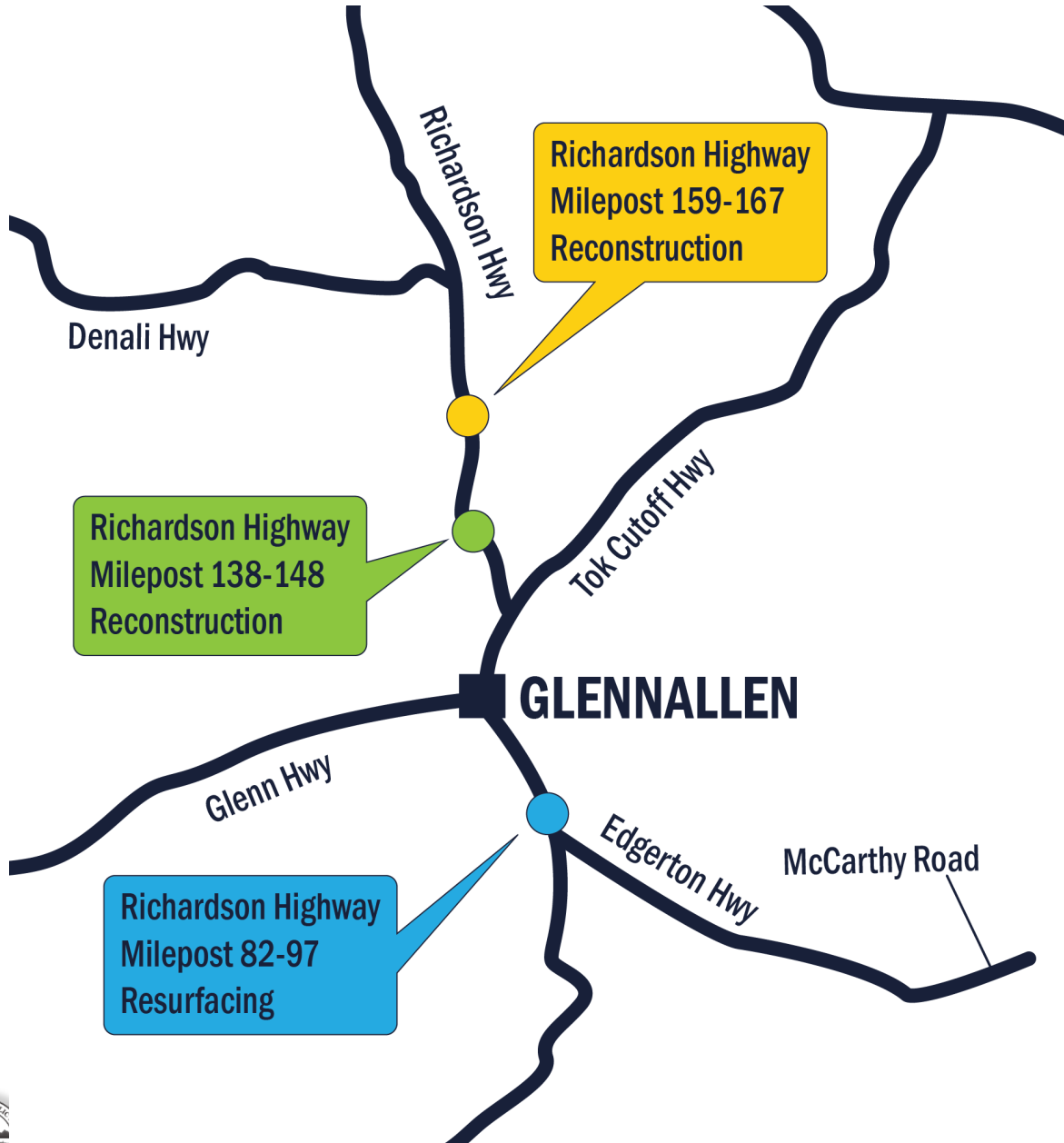
BEGINNING IN 2021

- 36 ROSIE CREEK ROAD RESURFACING
- 37 FAI RUNWAY 2R/20L REHABILITATION
- 38 GROWDEN AREA ACCESSIBILITY IMPROVEMENTS
- 39 3RD STREET WIDENING & INTERCONNECT

BEGINNING IN 2021

- 40 STEESE HIGHWAY MP 3 CULVERT
- 41 FAST PLANNING INTERSECTION IMPROVEMENTS
- 42 FAST PLANNING SIDEWALK IMPROVEMENTS FFY19
- 43 FAST PLANNING SIGN REPLACEMENT - STAGE III
- 44 FAIRBANKS AREA SIGNAL INTERCONNECT
- 45 NORTHERN REGION LED LIGHTING - FAIRBANKS AREA
- 46 SOUTH FAIRBANKS INDUSTRIAL ROADS RESURFACING

RICHARDSON HIGHWAY 2021 PROJECTS



Project Starts

- 159-167: Summer 2020
- 138-148: Summer 2021
- 82-97: Summer 2021

Expected Completion

- 159-167: Fall 2022
- 138-148: Fall 2022
- 82-97: Fall 2021

Impacts:

Pilot cars and 20-minute delays through each project

CHENA HOT SPRINGS ROAD IMPROVEMENTS

Project Start: Summer 2020

Expected Completion: Fall 2021

Impacts: Flaggers, lane shifts, and 20-minute delays between Nordale and the Steese Highway



UNIVERSITY AVENUE BRIDGE REPLACEMENT



Project Start: Summer 2020
Expected Completion: Fall 2021
Impacts: University Avenue closed
between Airport and Goldizen

WENDELL AVENUE BRIDGE REPLACEMENT

A large construction crane is lifting a long, rectangular bridge section into place. The scene is set in a snowy, urban environment during sunset, with a warm orange and yellow glow on the horizon. The bridge section is suspended by cables and is being lowered into a deep, snow-filled excavation. The surrounding area is covered in snow, and there are some buildings and trees in the background. The sky is a mix of blue and orange, indicating the time is either dawn or dusk.

Project Start: Summer 2020
Expected Completion: Fall 2021
Impacts: Wendell Bridge closed

DALTON HIGHWAY MP 362-414 PAVING

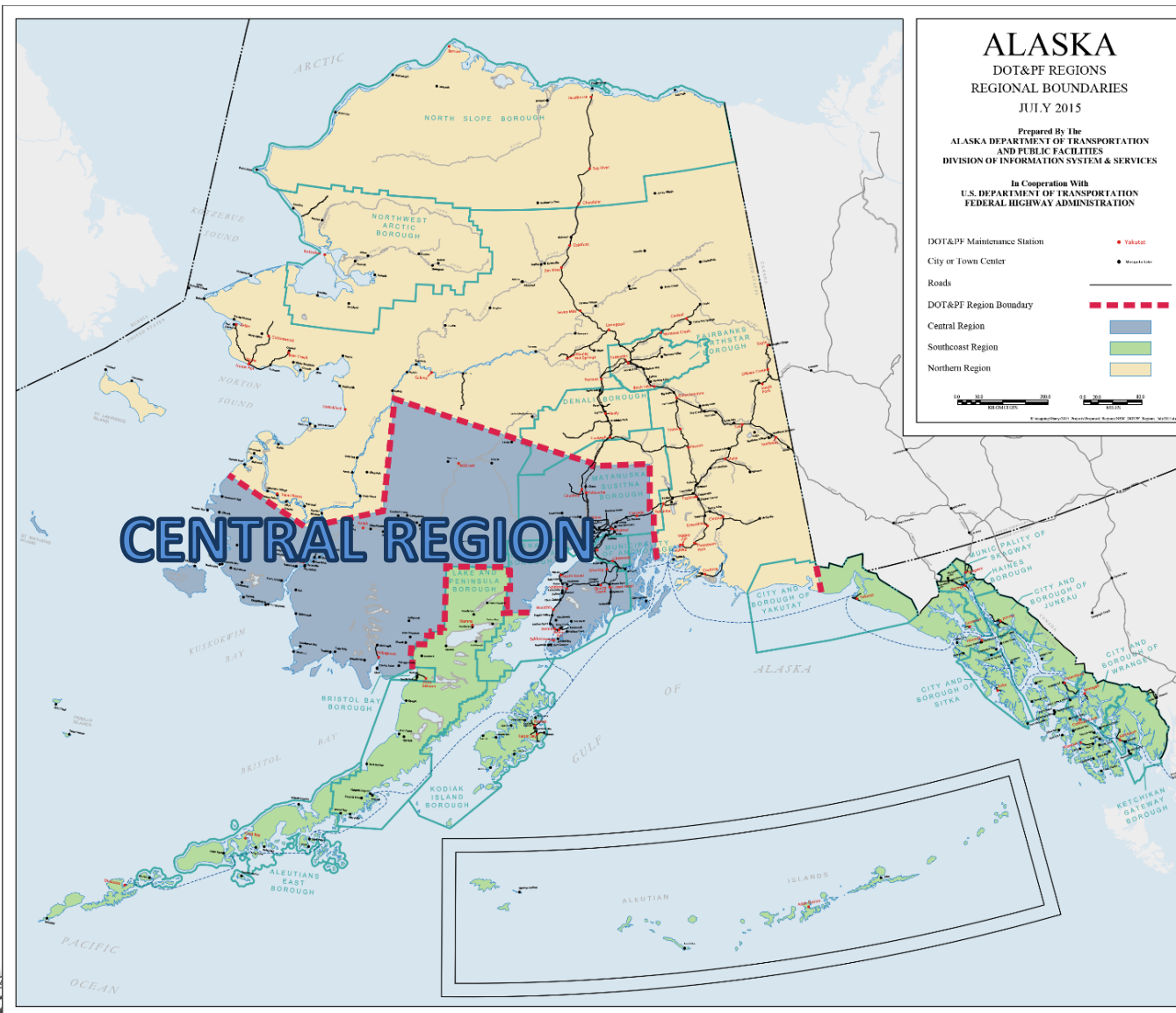


Project Start: Summer 2020
Expected Completion: Fall 2021
Impacts: Single lane traffic, pilot cars

DALTON HIGHWAY DRILL RIG MOVE



Central Region



CENTRAL REGION STATS

**Road Lane
Miles** 5043

**Maintenance
Stations** 20

**Maintained
Airports** 70

Bridges 250

Communities 107

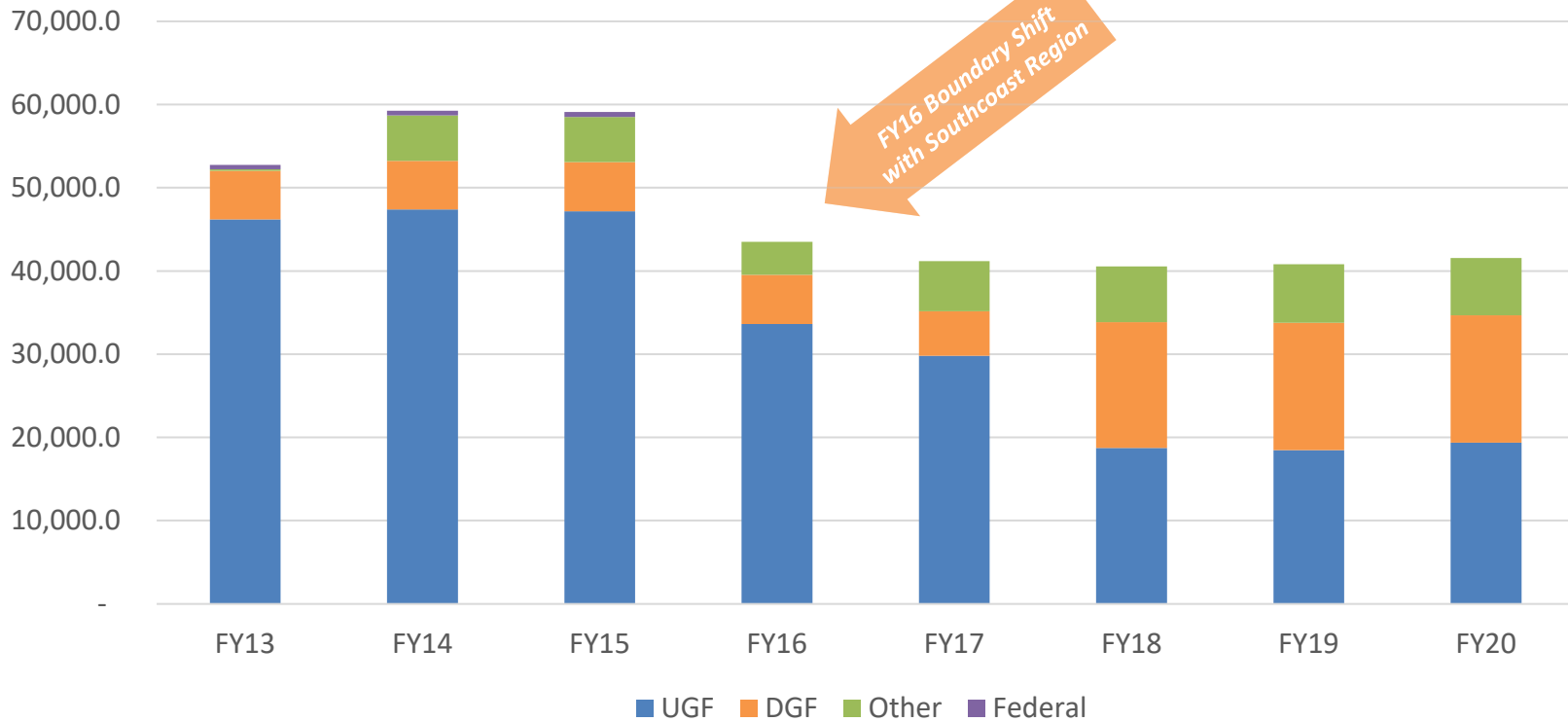
Boroughs:
Anchorage,
Matanuska
Susitna, Kenai
Peninsula, Bethel,
Dillingham

Tribes ~85

**Metropolitan
Planning
Organization** AMATS

Central Region Operating Budget

Central Region Highway & Aviation Funding



Central Region Capital Budget

2020 Construction Values	\$196,527,173
2021 Projected Contract Values	\$460m
2021 Active Construction Projects	40
2020 Maintenance & Operations Contracts (PM)	\$7,042,153
2021 Maintenance & Operations Projected Contract Values (PM)	\$7,924,286
State Highway Match	9.03%
State Airport Match	6.25%
2021 STIP	\$340m
2021 AIP	\$120m
2021 State Deferred Maintenance	\$0
2021 AIP Preventative Maintenance	\$6.8m
2021 FHWA Preventative Maintenance	\$13m

Maintenance Innovations and Accomplishments

Innovations:

Increased Brine Use in Kenai and Anchorage

Week On/Week Off Schedules in Bethel

20 Hour Coverage on Seward Highway

Birchwood Now Seasonally Staffed

LED Upgrades in Anchorage

Accomplishments:

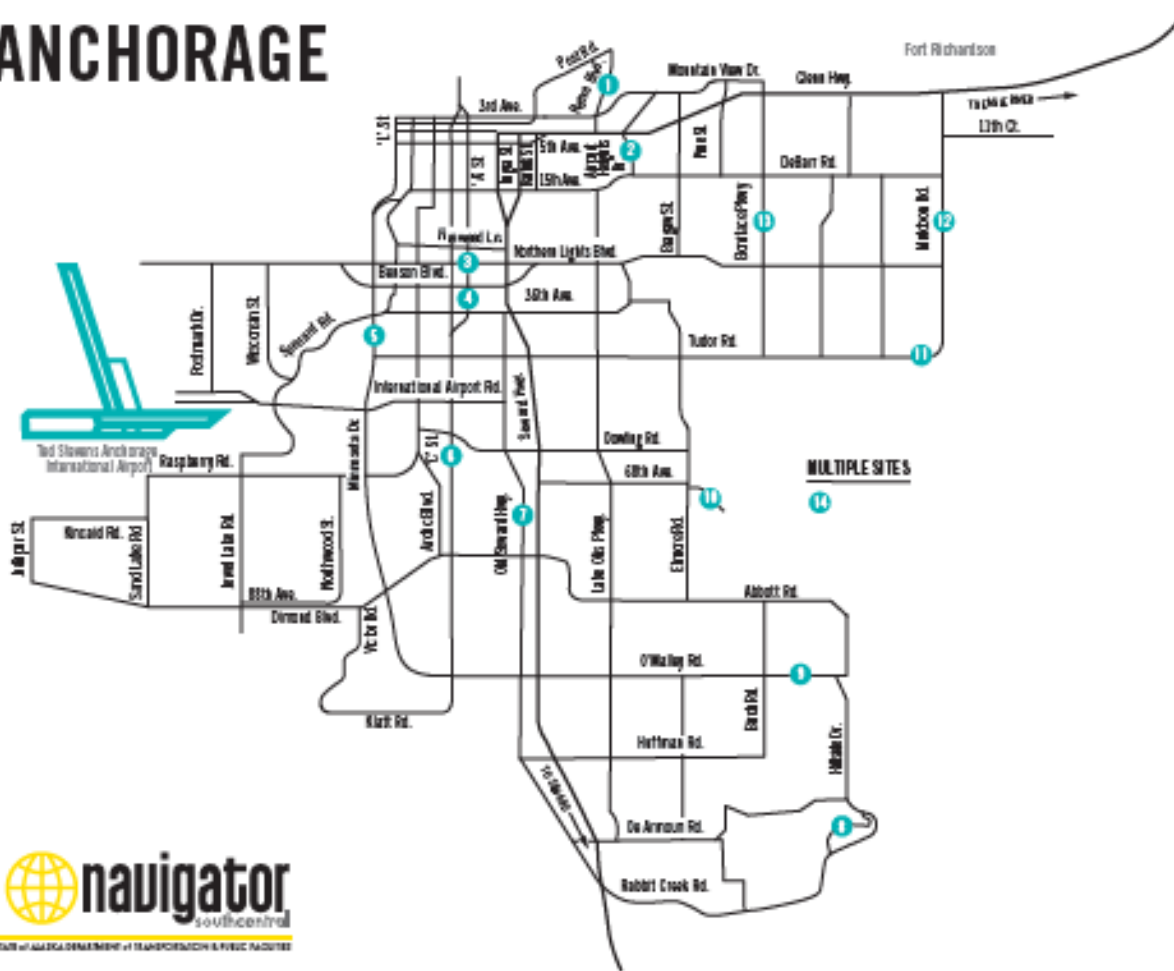
Maintenance Paving

Glenn Highway MP 115 (partnership w/Northern Region M&O)

Skilak Lake Road Drainage & Surface Repairs

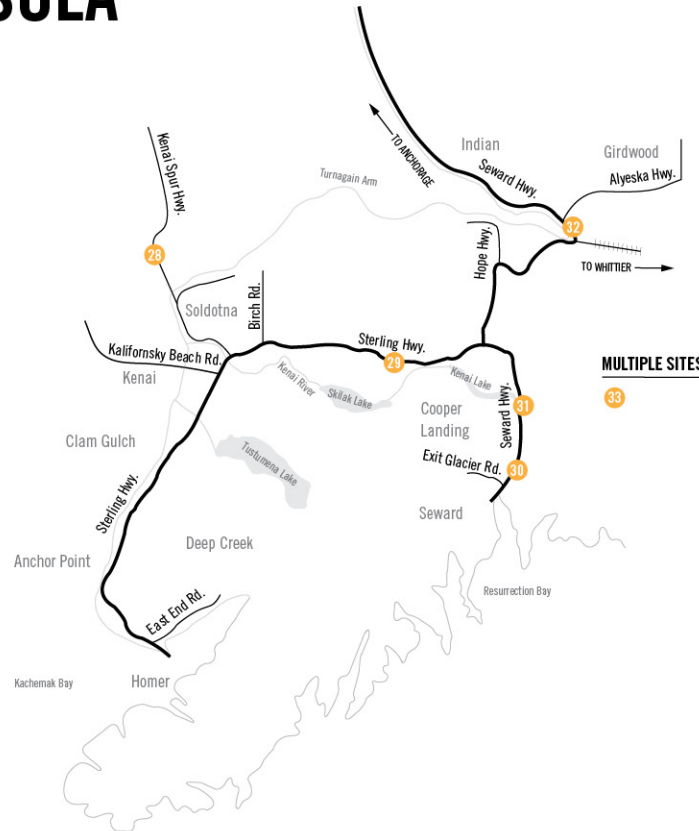
2021 Construction - Anchorage

ANCHORAGE



2021 Construction – Kenai Peninsula

KENAI PENINSULA



- 28 KENAI SPUR REHABILITATION PHASE II – ADVANCE UTILITY RELOCATION
- 29 STERLING HIGHWAY MP 45 to 60, SUNRISE to SKILAK LAKE ROAD RECONSTRUCTION STAGE 1A
- 30 SEWARD HIGHWAY, MP 0 to 8 PAVEMENT PRESERVATION
- 31 SEWARD HIGHWAY, MP 17 to 22.5 REHABILITATION
- 32 SEWARD HIGHWAY, MP 75 to 90 INGRAM CREEK to GIRDWOOD ROAD and BRIDGE REHABILITATION, PH II
- 33 KENAI AREA REPAIRS – NOV 2018 EARTHQUAKE



STATE of ALASKA DEPARTMENT of TRANSPORTATION & PUBLIC FACILITIES

2021 Construction – Mat-Su

MAT-SU VALLEY



- 15 WILLOW-FISHHOOK ROAD 00027 – NOV 2018 EARTHQUAKE
- 16 PARKS HIGHWAY BRIDGE REPLACEMENTS: MONTANA CREEK, SHEEP CREEK, and GOOSE CREEK
- 17 PARKS HIGHWAY, PITTMAN ROAD to BIG LAKE RECONSTRUCTION
- 18 PARKS HIGHWAY, SEWARD MERIDIAN PARKWAY to LUCUS ROAD PREVENTIVE MAINTENANCE
- 19 SEWARD MERIDIAN PARKWAY ROAD IMPROVEMENTS, PH II PALMER-WASILLA HIGHWAY to SELDON ROAD
- 20 EAGLE RIVER LOOP PEDESTRIAN UNDERCROSSING – NOV 2018 EARTHQUAKE
- 21 KNIK RIVER ROAD, PALMER 00030 – NOV 2018 EARTHQUAKE
- 22 OLD GLENN HIGHWAY MP 0 to 9 PAVEMENT PRESERVATION and HSIP: OLD GLENN HIGHWAY, WIDER LANE LINES
- 23 HSIP: GLENN HIGHWAY MEDIAN BARRIER, MP 30 to 34
- 24 GLENN/PARKS INTERCHANGE REPAIRS – NOV 2018 EARTHQUAKE
- 25 GLENN HIGHWAY MP 40 TO 68 – NOV 2018 EARTHQUAKE
- 26 CLARK-WOLVERINE ROAD 00031 – NOV 2018 EARTHQUAKE
- 27 CLARK-WOLVERINE ROAD and HUNTLEY ROAD 00046 – NOV 2018 EARTHQUAKE
- 28 BUFFALO MINE ROAD 00118 – NOV 2018 EARTHQUAKE PAVEMENT PRESERVATION
- 29 MAT-SU AREA REPAIRS – NOV 2018 EARTHQUAKE
- 30 MAT-SU SEPTEMBER 2012 SOUTHCENTRAL FLOODING PERMANENT REPAIRS



STATE OF ALASKA DEPARTMENT of TRANSPORTATION & PUBLIC FACILITIES



SEWARD HIGHWAY

Seward Highway MP 75-90 (Ingram Creek--Girdwood) Reconstruction Ph. 2

- Widening the highway, adding turning and passing lanes, improving geometry and replacing bridges
- Estimated \$80-90 million



STERLING HIGHWAY

Sterling Hwy MP 45-60 (Skilak Lake Rd to MP 56)

- Reconstruction Stage 1A
- Estimate: \$20-30 million

Sterling Highway MP 45-60 CMGC Phase 2-5

- Award: \$300 million

KNIK GOOSE BAY ROAD RECONSTRUCTION

- Phase 1: Fairview Loop to Palmer Wasilla
- Design is 95% complete
- Advertising fall 2021 with construction spring 2022
- Estimate: over \$100 million



Southcoast Region



Road Lane Miles	1,528
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Maint. Stations 20

Maintained Airports	44
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Seaplane Bases 17

Bridges	186
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Harbors 15

Communities	96
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Boroughs 12

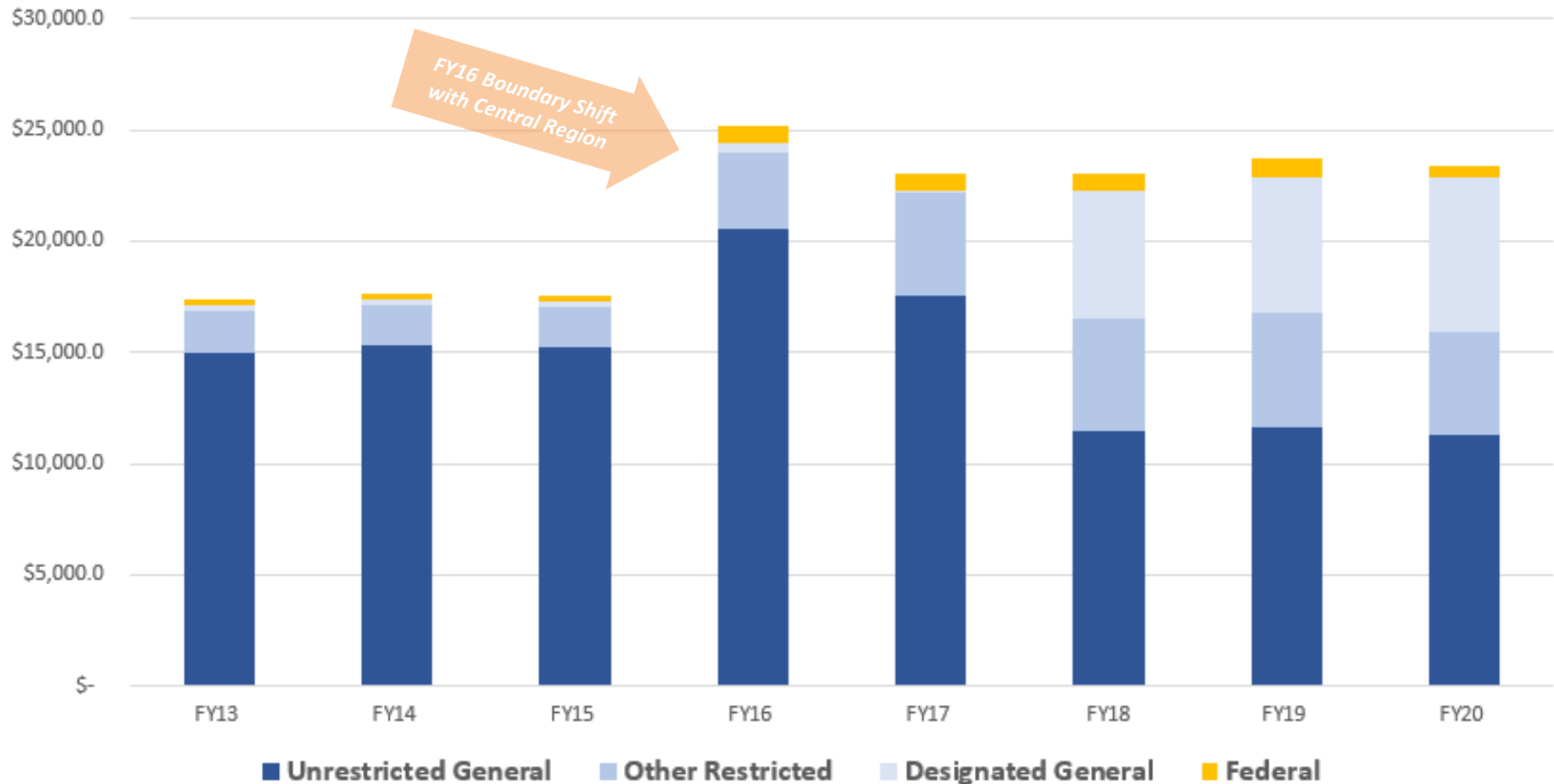
City Governments	51
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Tribes 60

02/23/2021

Southcoast Region Operating Budget

SOUTHCOAST REGION HIGHWAYS AND AVIATION MAINTENANCE AND OPERATIONS FUNDING



Southcoast Region Capital Budget



2021 SOUTHCOAST REGION CONSTRUCTION

Projected Contract Values	\$140 - \$175
Total Number of Projects	30
State Highways Match	9.03%
State Airports Match	5.0%-6.25%
Communities with Active Projects	12
Highway Projects	26
Airport Projects	4



U.S. Department
of Transportation

**Federal Highway
Administration**



**Federal Aviation
Administration**

Southcoast Storm Response



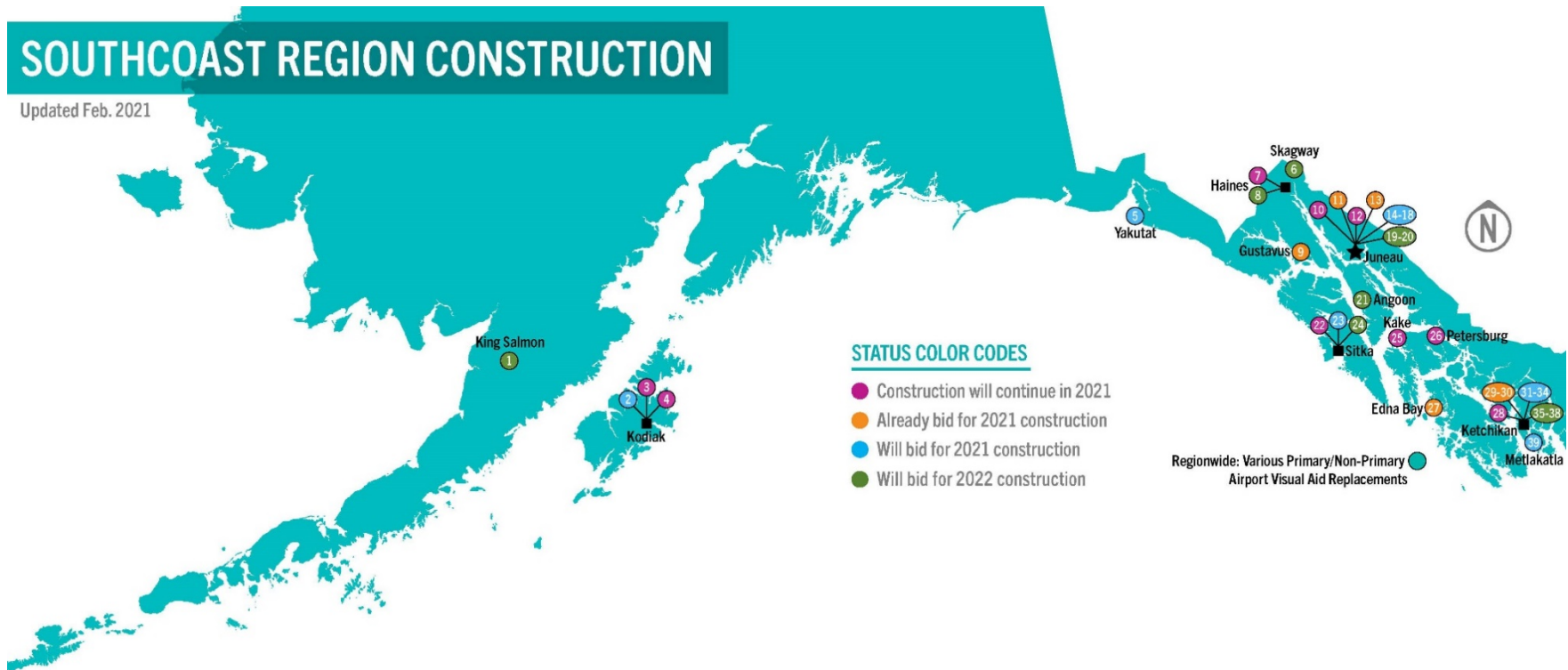
WINTER STORM RESPONSE TIMES 2019-2020

Number of Events	123	Meet Targets 63% of time	
	Target Time to Restore Road	Average Time to Restore Road	
Priority 1	12:00	8:33	
Priority 2	18:00	17:94	
Priority 3	24:00	26:69	
Priority 4	30:00	35:14	



SOUTHCOST REGION CONSTRUCTION

Updated Feb. 2021



STATUS COLOR CODES

- Construction will continue in 2021
- Already bid for 2021 construction
- Will bid for 2021 construction
- Will bid for 2022 construction

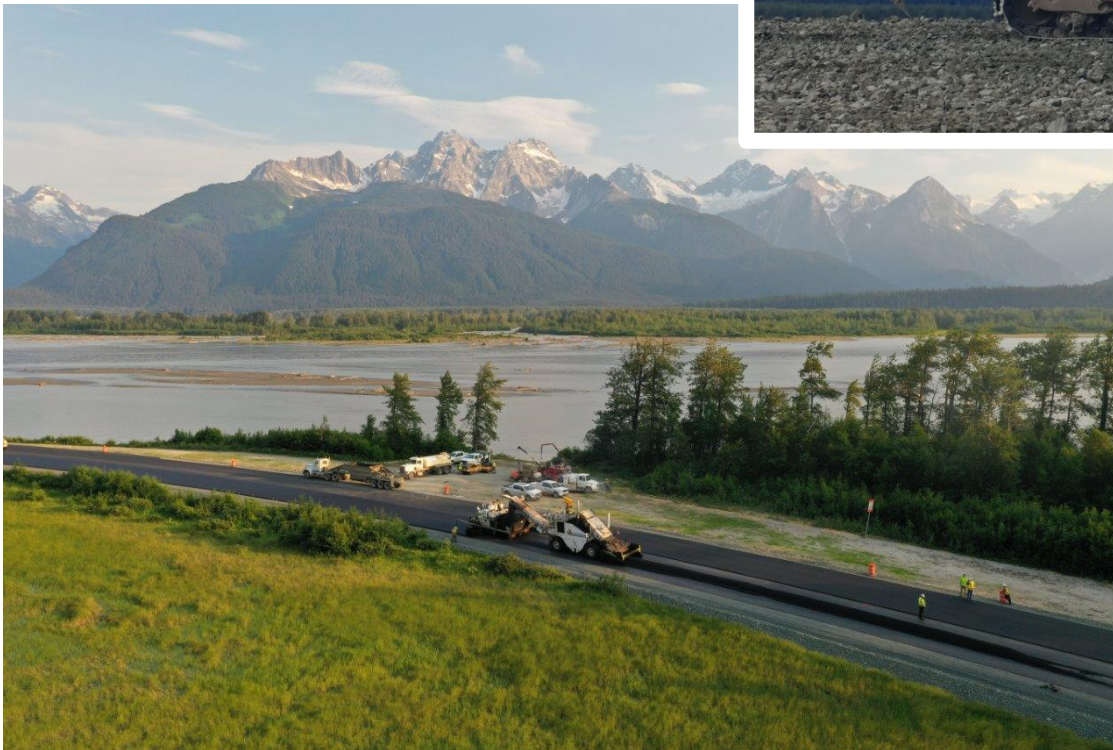
Regionwide: Various Primary/Non-Primary
Airport Visual Aid Replacements

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> 1 KING SALMON: AIRPORT PERIMETER FENCING UPGRADES 2 KODIAK: AIRPORT PERIMETER FENCING UPGRADES 3 KODIAK: HARBOR CHANNEL BRIDGE IMPROVEMENTS 4 KODIAK: REZANOFF DRIVE RESURFACE - AIRPORT TO CHINIAK HIGHWAY 5 YAKUTAT: SCHOOL ZONE CROSSING IMPROVEMENTS 6 SKAGWAY: STATE STREET PAVEMENT REHAB 7 HAINES: HIGHWAY RECONSTRUCTION PHASE 2 - MP 12.2 TO 20.0 8 HAINES: HIGHWAY RECONSTRUCTION PHASE 3 - MP 20.0 TO 25.0 9 GUSTAVUS: AIRPORT APRON, RUNWAY, & TAXIWAY PAVEMENT REHAB 10 JUNEAU: EGAN DRIVE - 10TH STREET TO MAIN STREET 11 JUNEAU: AUKE BAY FERRY TERMINAL MODIFICATIONS 12 JUNEAU: MENDENHALL LOOP ROAD IMPROVEMENTS 13 JUNEAU: GLACIER HIGHWAY - TWIN LAKES CULVERT ASSESSMENT 14 JUNEAU: DOUGLAS HWY. RESURFACE & SIDEWALK REPAIRS STAGE 1 | <ul style="list-style-type: none"> 15 JUNEAU: DOWNTOWN PREVENTATIVE MAINTENANCE PAVING 16 JUNEAU: GLACIER HIGHWAY IMPROVEMENTS (LEMON CREEK) 17 JUNEAU: MENDENHALL LOOP ROAD - EGAN DRIVE TO STEPHEN RICHARDS 18 JUNEAU: VANDERBILT ROAD RESURFACING 19 JUNEAU: DOUGLAS HWY. RESURFACE & SIDEWALK REPAIRS STAGE 2 20 JUNEAU: EGAN/YANDUKIN INTERSECTION HSIP IMPROVEMENTS 21 ANGOON: AIRPORT 22 SITKA: KATLIAN BAY ROAD 23 SITKA: HALIBUT POINT ROAD & PETERSON AVENUE INTERSECTION SAFETY IMPROVEMENTS 24 SITKA: SAWMILL CREEK RESURFACING & PEDESTRIAN IMPROVEMENTS 25 KAKE: ACCESS 26 PETERSBURG: AIRPORT PERIMETER FENCING UPGRADES 27 EDNA BAY: HARBOR IMPROVEMENTS | <ul style="list-style-type: none"> 28 KETCHIKAN: REVILLA/GRAVINA NEW & REFURBISH FERRY BERTHS AND UPLAND IMPROVEMENTS 29 KETCHIKAN: NON-NHS SLOPE STABILIZATION 30 KETCHIKAN: GRAVINA FERRY LAYUP & FREIGHT FACILITIES 31 KETCHIKAN: HERRING COVE BRIDGE IMPROVEMENT - CMGC 32 KETCHIKAN: STEDMAN & DEERMOUNT INTERSECTION & SAFETY IMPROVEMENTS 33 KETCHIKAN: KETCHIKAN TO SHELTER COVE ROAD, STAGE 3 34 KETCHIKAN: WOOD ROAD CULVERT REPLACEMENT 35 KETCHIKAN: TONGASS AVENUE IMPROVEMENTS 36 KETCHIKAN: SAYLES/GORGE STREET VIADUCT IMPROVEMENT 37 KETCHIKAN: WATER STREET TRESTLE NO. 1 IMPROVEMENT 38 KETCHIKAN: FERRY TERMINAL IMPROVEMENTS - BERTH 3 39 METLAKATLA: SEAPLANE FACILITY REPLACEMENT |
|---|---|--|

HAINES HIGHWAY RECONSTRUCTION MP 12-20

Status: Winter Suspension

- Project Start - Fall 2020
- Work Resumes Spring 2021
- Expected Completion 2022
- Impacts: Typical delays up to 10 min; 20 min when paving



KATLIAN BAY ROAD

Status: 35% Complete

Milestones:

- Road work has extended approx. 7,000 feet past the end of Halibut Point Rd just beyond Mosquito Point.
- Road building activity another 9,500 feet E & W of S. Katlian River
- Full project alignment has been cleared



MENDENHALL LP. RD. CAPACITY IMPROVEMENTS

Status: Roundabouts Open

Milestones:

- Contractor completed both roundabouts in one season when original schedule called for two seasons.
- Will complete under budget.



NANCY STREET TO BACK LOOP ROAD

Stephen Richards Roundabout



Floyd Dryden Roundabout



Question/Answer Session

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Thank You.

For more information, visit the DOT&PF Fast Facts: dot.alaska.gov/comm/legislative/docs/Fact-Sheet.pdf

Glenn Highway near MP 88 and Matanuska Glacier. Photo by Brock Antijunti

