



# Alaska Department of Transportation & Public Facilities

## Senate Transportation Committee: Roads & Highways Overview *Presented on February 16, 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.

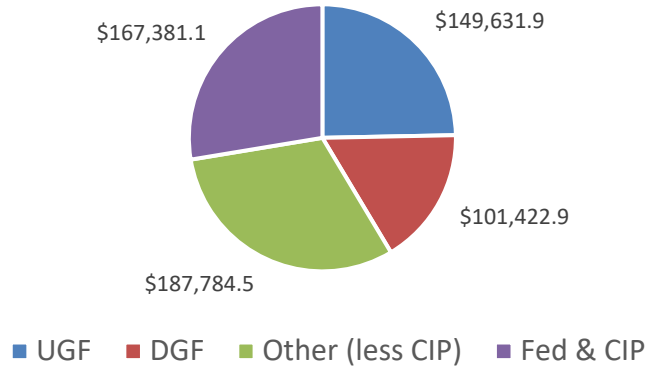


# Department Budget

(\$ thousands)

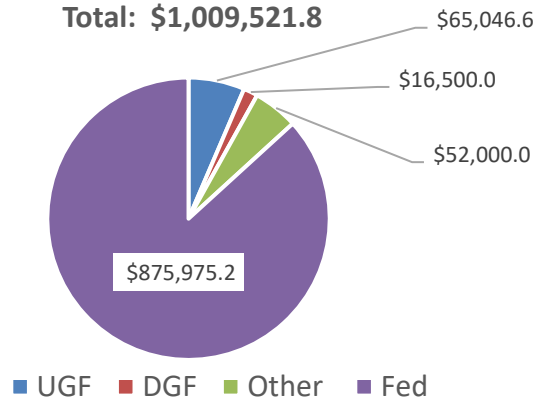
## FY21 Operating Budget

Total: \$606,220.4

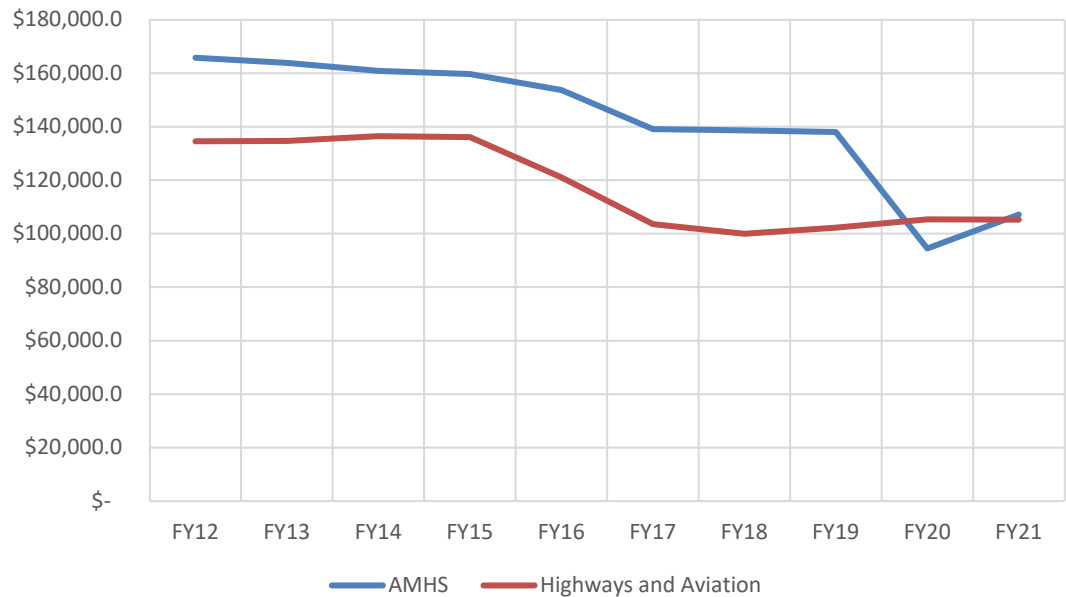


## FY21 Capital Budget

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 Personnel

*Data as requested for this slide to be provided  
on the day of the presentation.*



# 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.

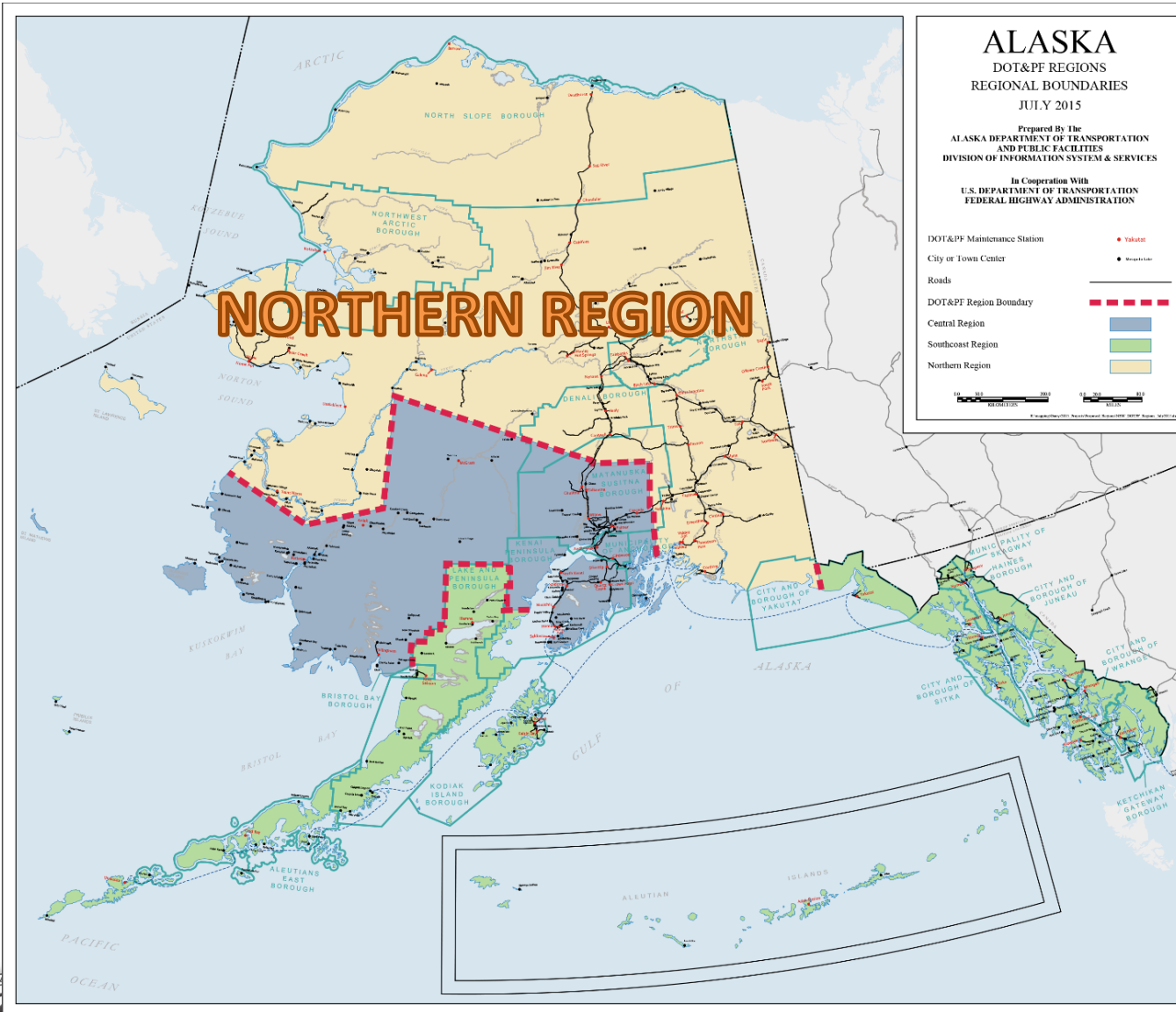
## OPERATIONS

- 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
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Maintenance Stations	37
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Maintained Airports	90
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Bridges	390
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Communities	124
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Boroughs	6
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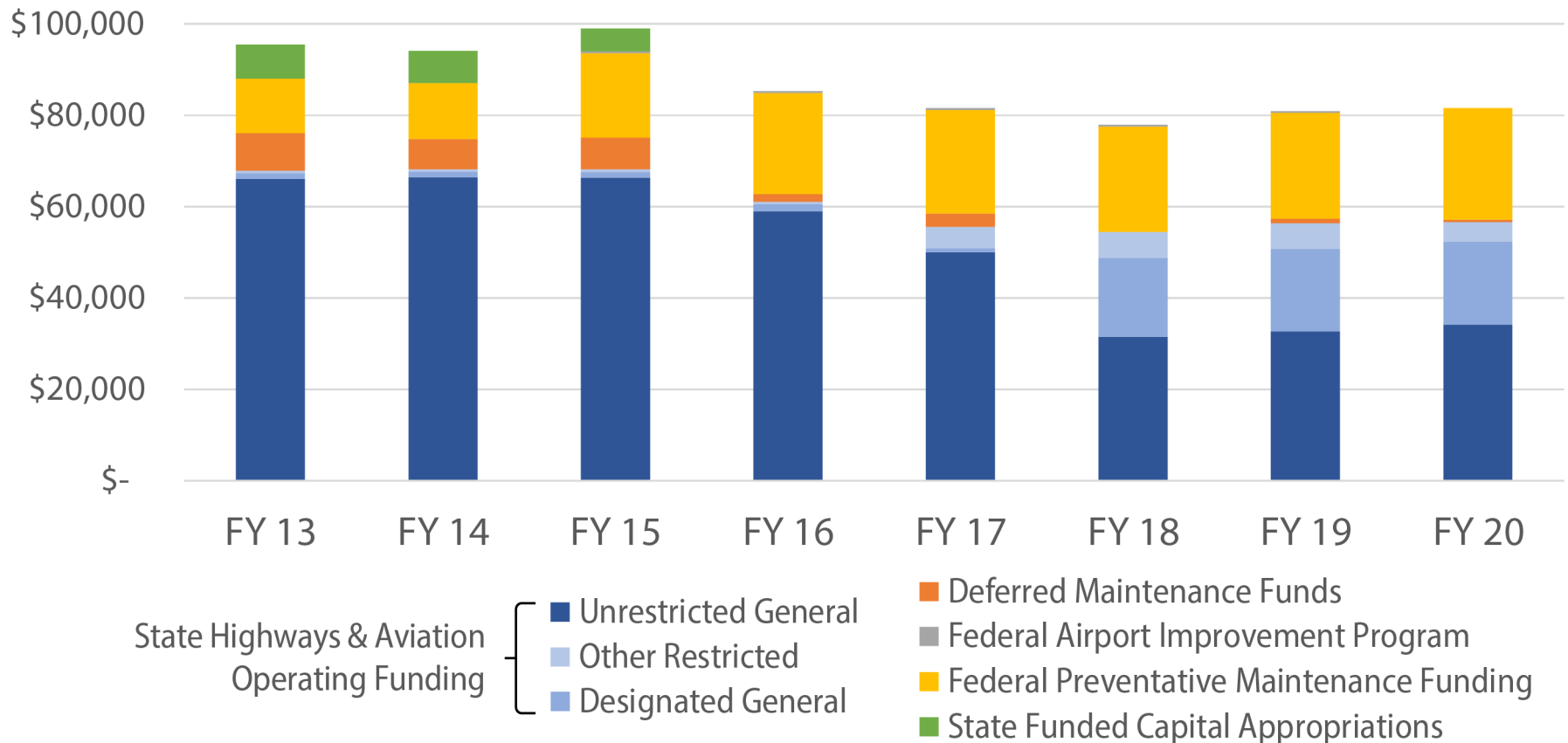
City Governments	50+
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Tribes	100+
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Metropolitan Planning Organization	1
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# Northern Region Overall Budget

## 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	0.0%
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

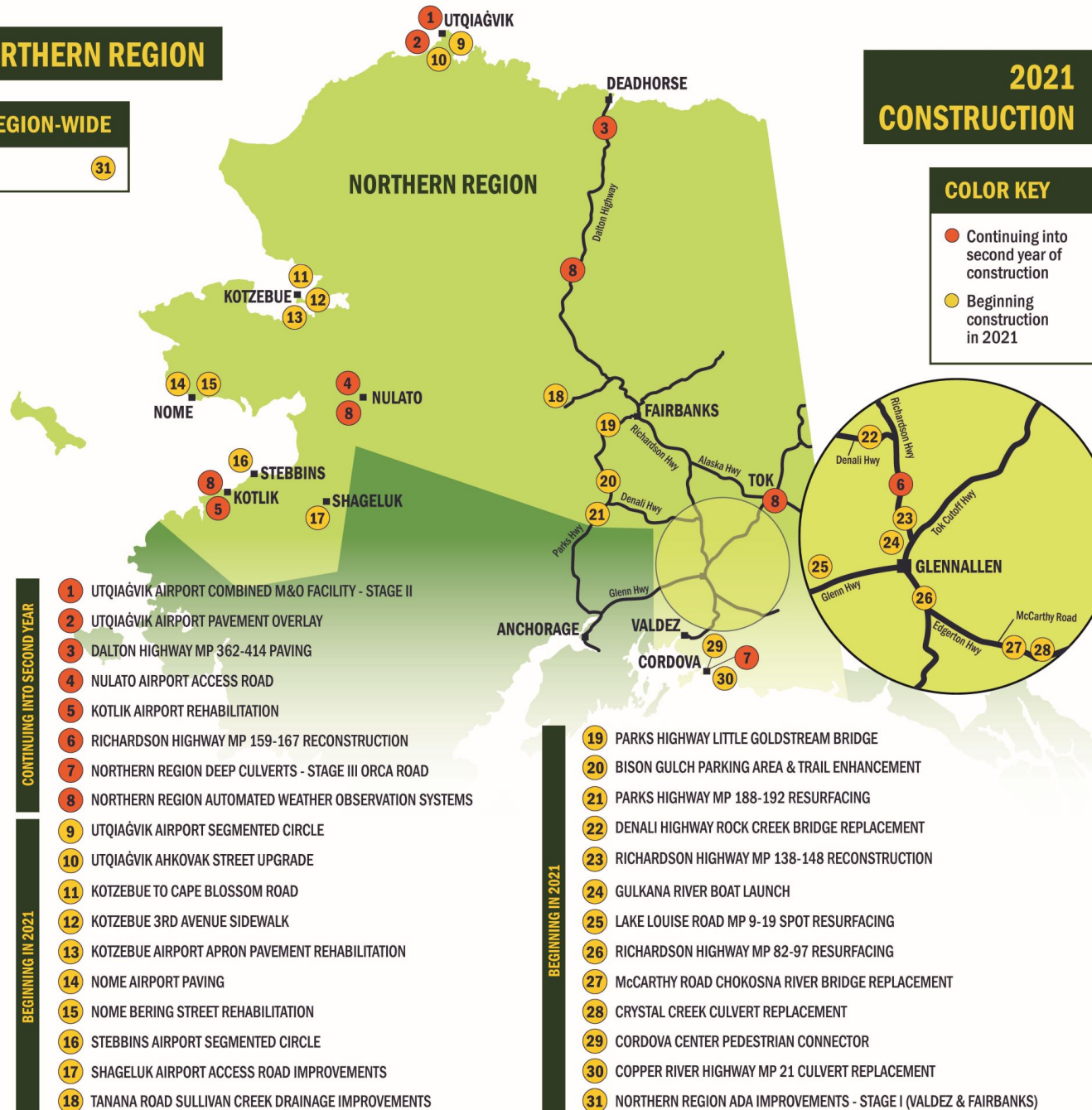
## REGION-WIDE

31

## 2021 CONSTRUCTION

### COLOR KEY

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



## FAIRBANKS AREA

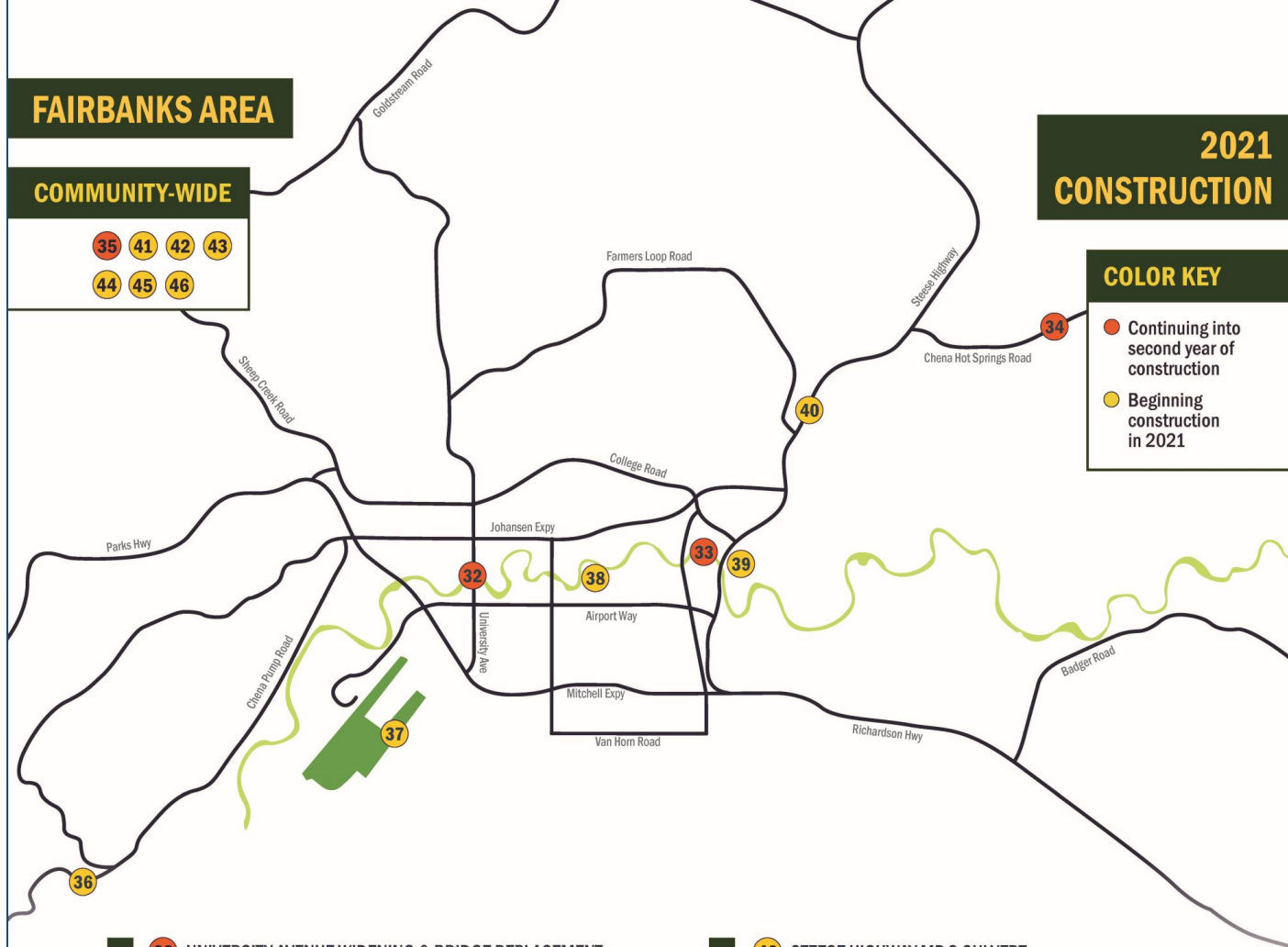
### COMMUNITY-WIDE

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

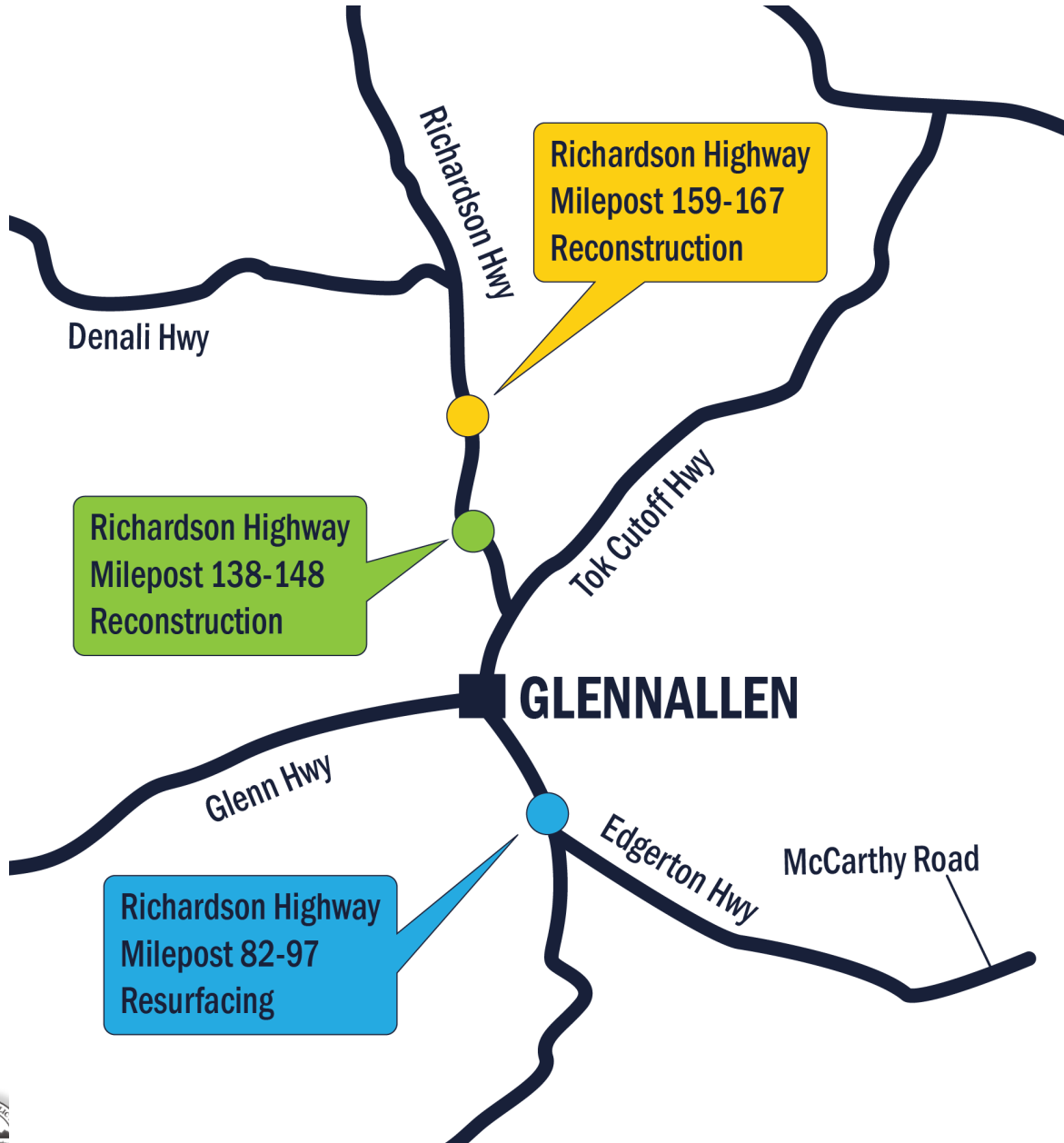
### BEGINNING IN 2021

- 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



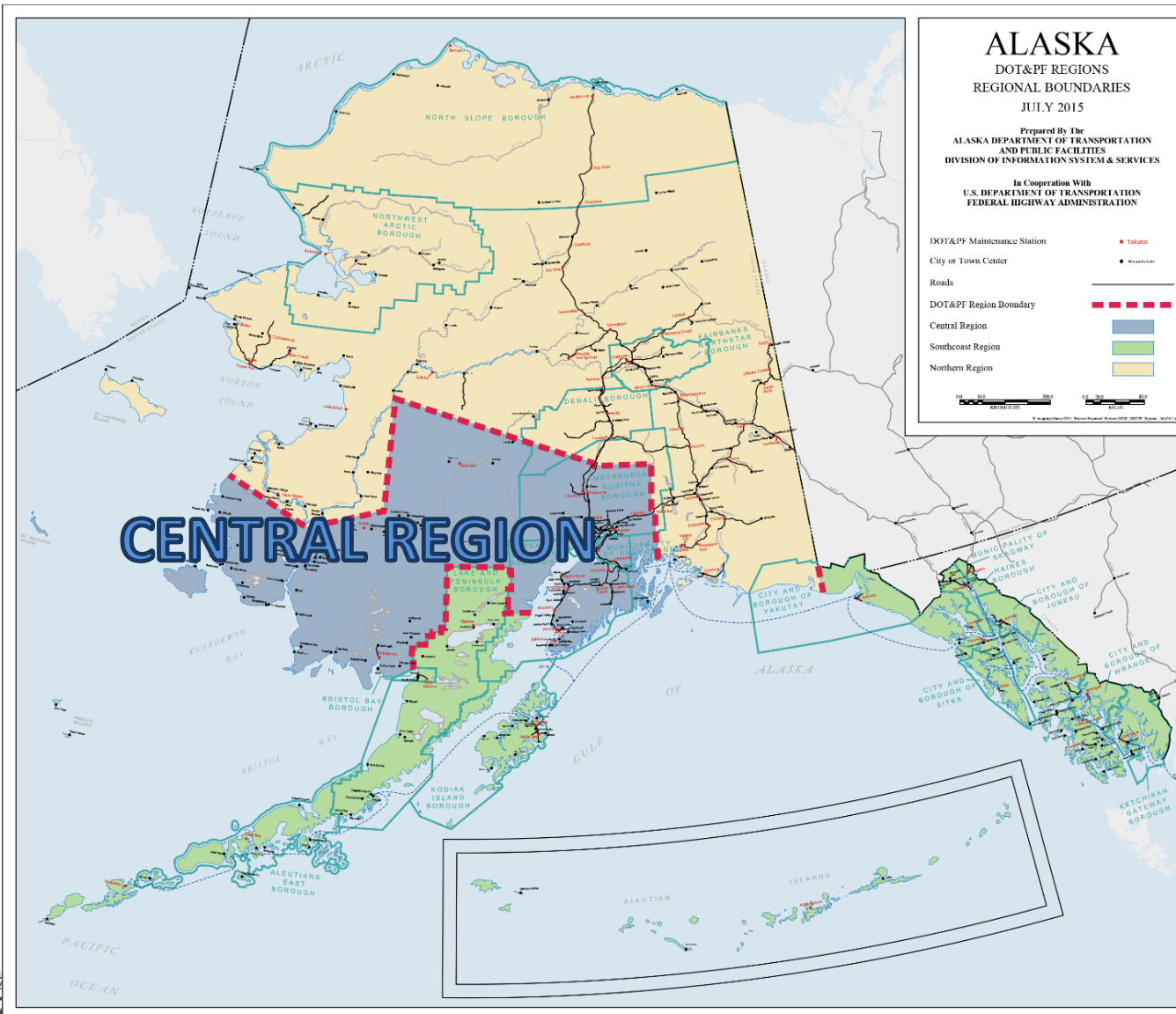
**Project Start:** Summer 2020  
**Expected Completion:** Fall 2021  
**Impacts:** Single lane traffic, pilot cars



# 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:

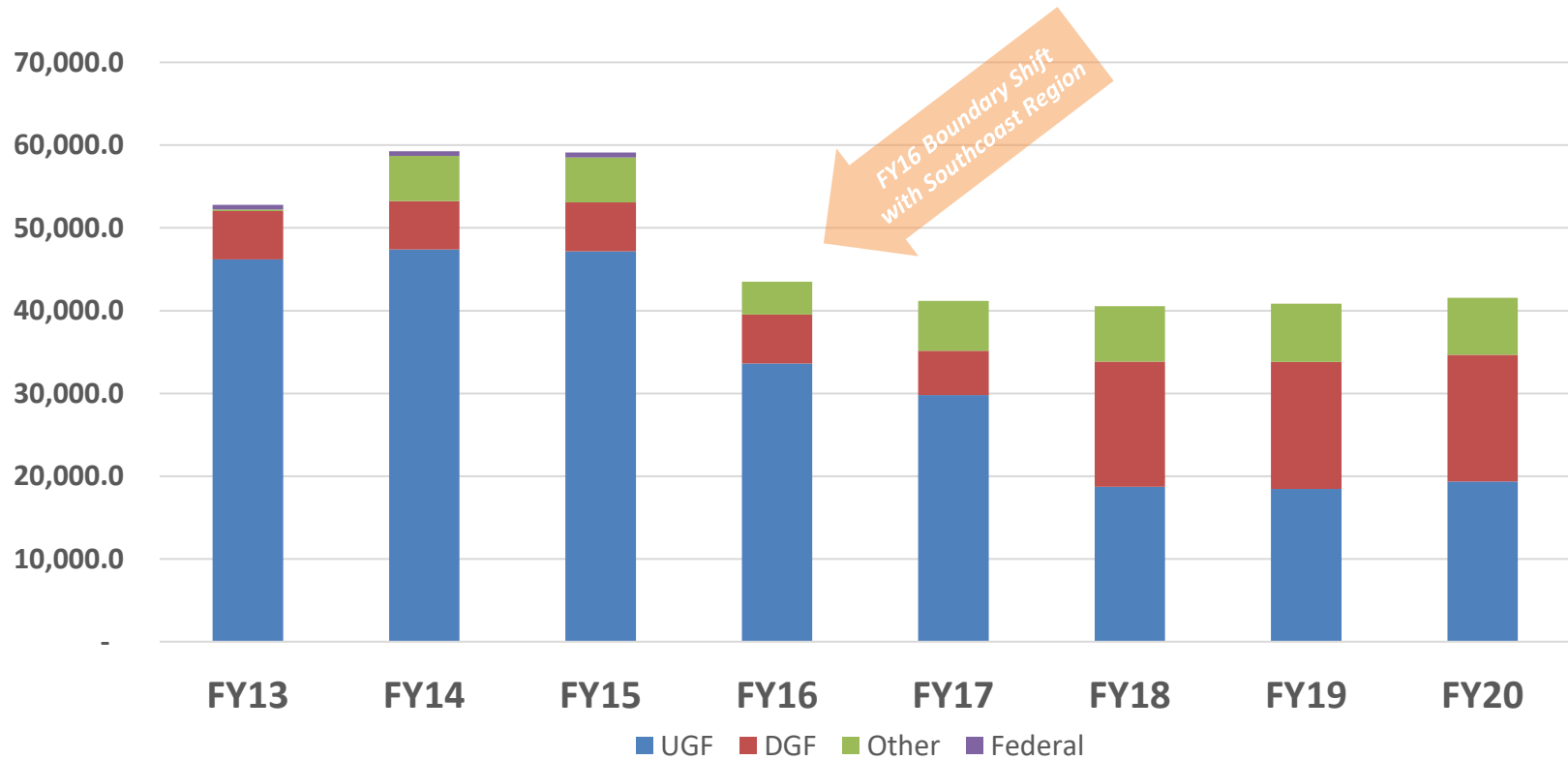
Anchorage,  
Matanuska  
Susitna, Kenai  
Peninsula, Bethel,  
Dillingham

**Tribes** ~85

**Metropolitan Planning Organization** AMATS

# Central Region Operating Budget

## Maintenance & Operations



Whittier Tunnel	CIP 4331.3, Receipts 1729.0
Design & Engineering Services	UGF/DGF 678.5, CIP/ICAP 26,263.7
Construction	UGF/DGF 97.7, CIP/ICAP 21,954.1

# 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

## Accomplishments:

Knik Goose Bay Road Paving

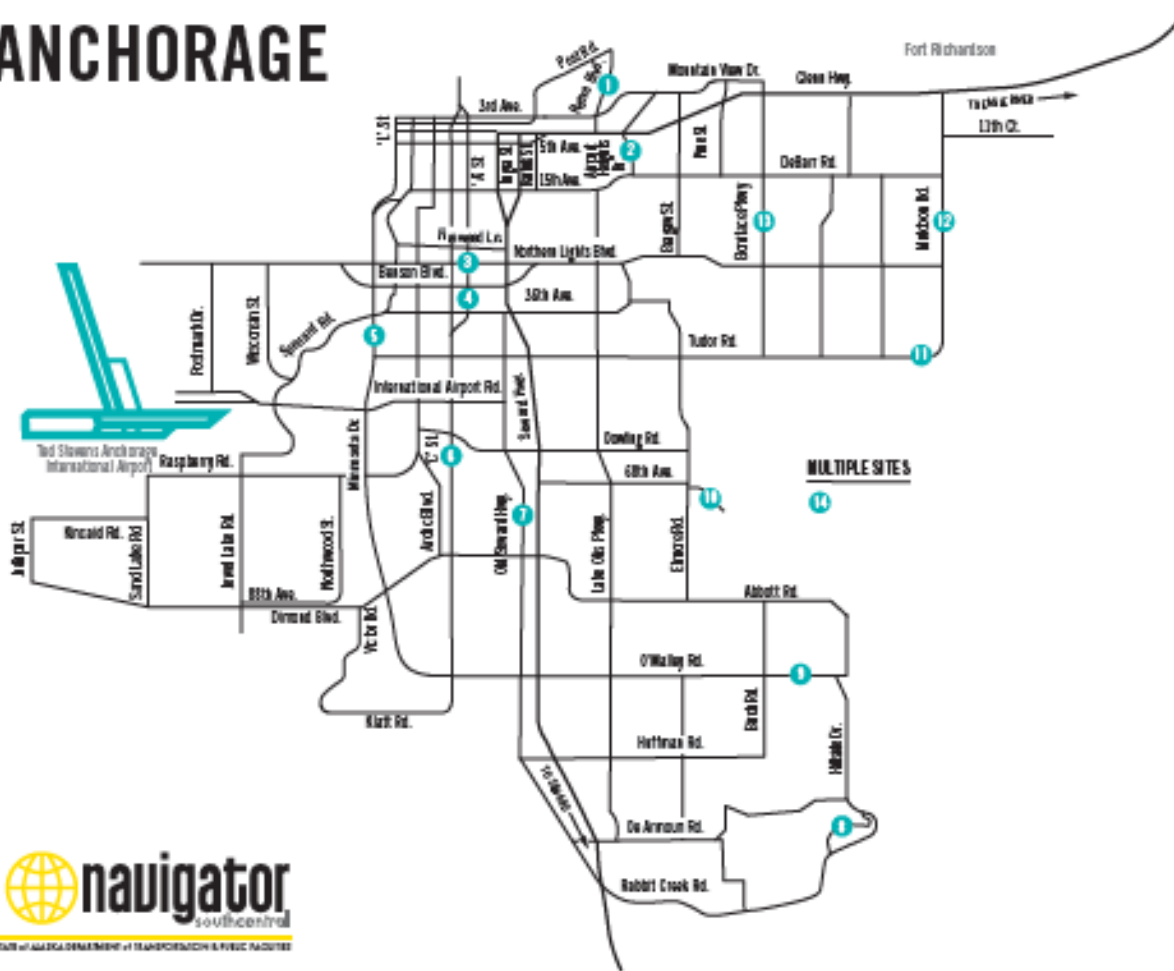
Bridge Access Paving

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

Skilak Lake Road Drainage & Surface Repairs

# 2021 Construction - Anchorage

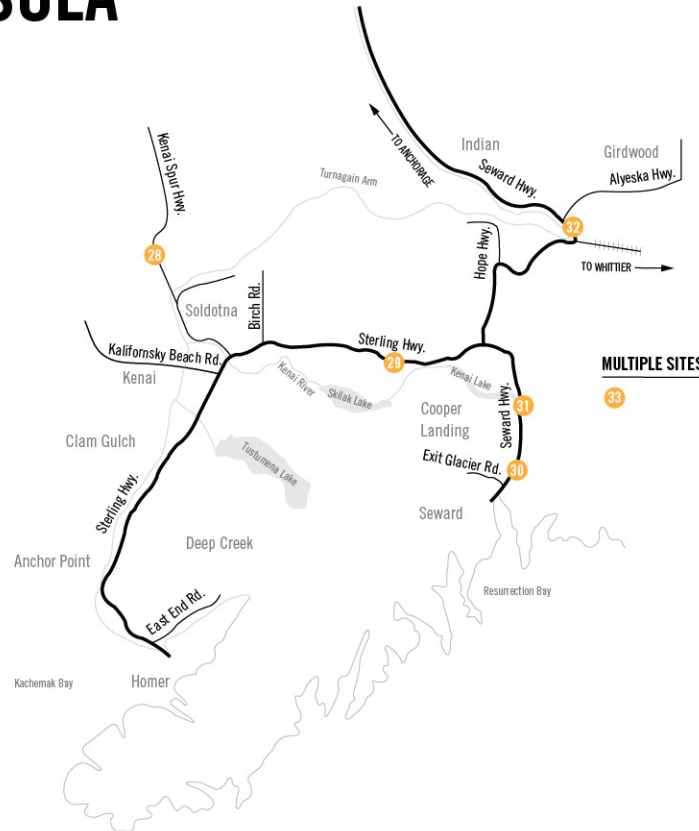
## ANCHORAGE



- 1 AMATS: REEVE BOULEVARD, 5<sup>TH</sup> AVENUE to POST ROAD PAVEMENT PRESERVATION
- 2 AMATS: AIRPORT HEIGHTS, DEBARR ROAD to GLENN HIGHWAY PAVEMENT PRESERVATION
- 3 HSIP: A STREET, MIDTOWN COUPLET OVERHEAD SIGNAL INDICATION U/G
- 4 A STREET, NORTHERN LIGHTS to 40<sup>TH</sup> AVENUE PAVEMENT PRESERVATION
- 5 MINNESOTA DRIVE, TUDOR to 15<sup>TH</sup> AVE PAVEMENT PRESERVATION
- 6 HSIP: C STREET, TUDOR ROAD and DIMOND BOULEVARD INTERSECTIONS
- 7 OLD SEWARD HIGHWAY, DIMOND BOULEVARD to DOWLING ROAD PAVEMENT PRESERVATION
- 8 OLD RABBIT CREEK ROAD 00029 - NOV 2018 EARTHQUAKE
- 9 AMATS: O'MALLEY ROAD RECONSTRUCTION, LIVINGSTON STREET to HILLSIDE DRIVE
- 10 CTF ALTERNATE ENTRANCE ALIGNMENT (WFL)
- 11 AMATS: CHUGACH FOOTHILLS CONNECTOR, PHASE II
- 12 MULDOON ROAD, DEBARR ROAD to E. 36<sup>TH</sup> AVENUE PAVEMENT PRESERVATION
- 13 BONIFACE PARKWAY, TUDOR ROAD TO JBER GATE, PAVEMENT PRESERVATION
- 14 HSIP: ANCHORAGE PEDESTRIAN LIGHTING

# 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

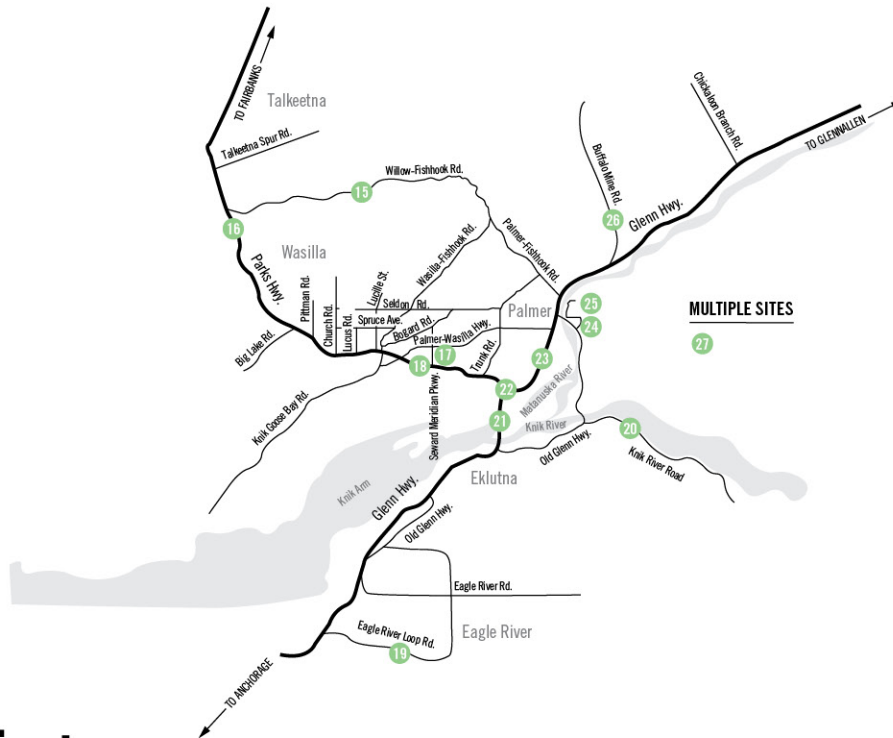


STATE of ALASKA DEPARTMENT of TRANSPORTATION & PUBLIC FACILITIES



# 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 SEWARD MERIDIAN PARKWAY ROAD IMPROVEMENTS, PH II PALMER-WASILLA HIGHWAY to SELDON ROAD
- 18 PARKS HIGHWAY, SEWARD MERIDIAN PARKWAY to LUCUS ROAD PREVENTIVE MAINTENANCE
- 19 EAGLE RIVER LOOP PEDESTRIAN UNDERCROSSING – NOV 2018 EARTHQUAKE
- 20 KNIK RIVER ROAD, PALMER 00030 – NOV 2018 EARTHQUAKE
- 21 HSIP: GLENN HIGHWAY MEDIAN BARRIER, MP 30 to 34
- 22 GLENN/PARKS INTERCHANGE REPAIRS – NOV 2018 EARTHQUAKE
- 23 GLENN HIGHWAY MP 40 TO 68 – NOV 2018 EARTHQUAKE
- 24 CLARK-WOLVERINE ROAD 00031 – NOV 2018 EARTHQUAKE
- 25 CLARK-WOLVERINE ROAD and HUNTLEY ROAD 00046 – NOV 2018 EARTHQUAKE
- 26 BUFFALO MINE ROAD 00118 – NOV 2018 EARTHQUAKE PAVEMENT PRESERVATION
- 27 MAT-SU AREA REPAIRS – NOV 2018 EARTHQUAKE



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

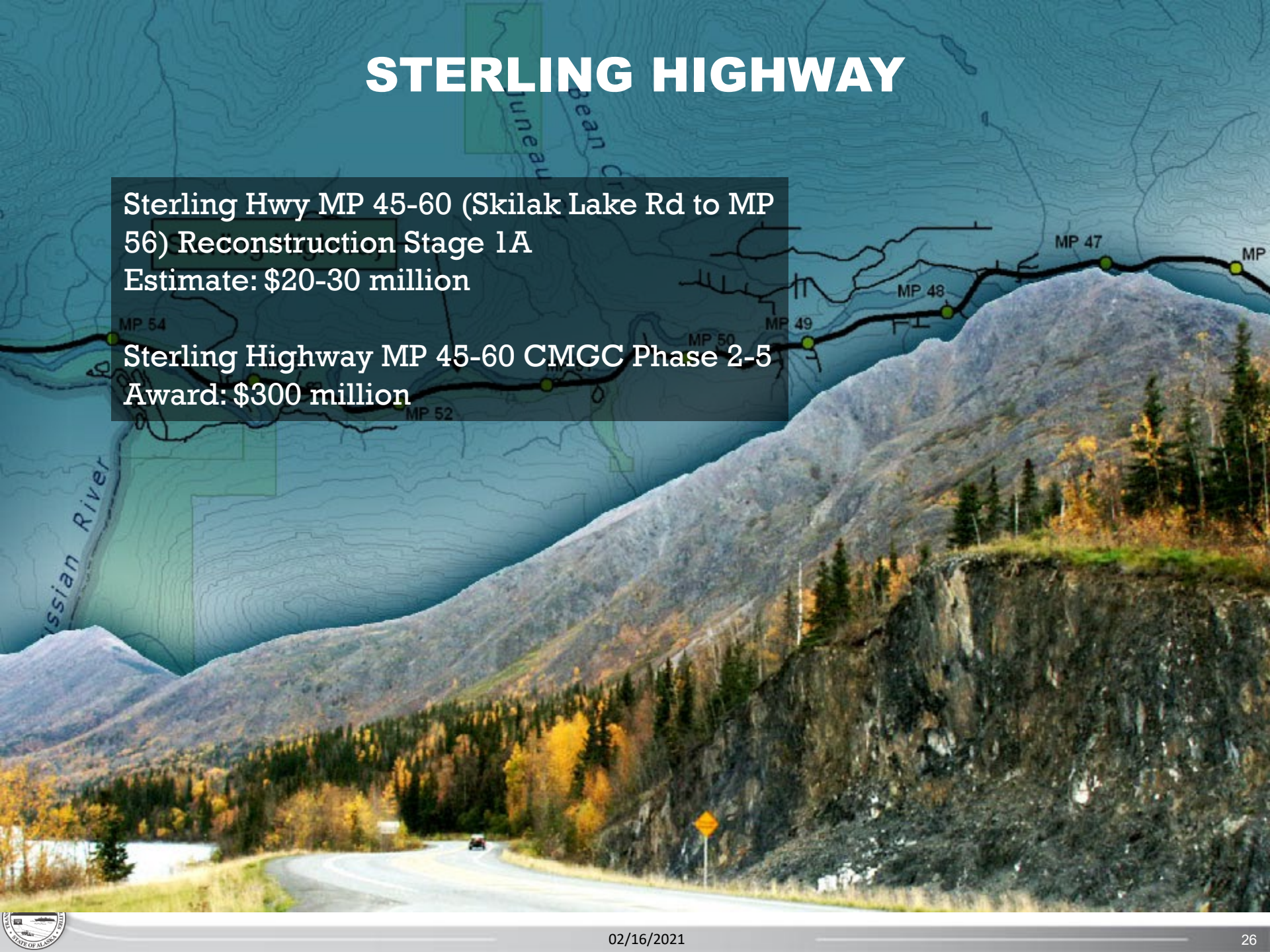




# STERLING HIGHWAY

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



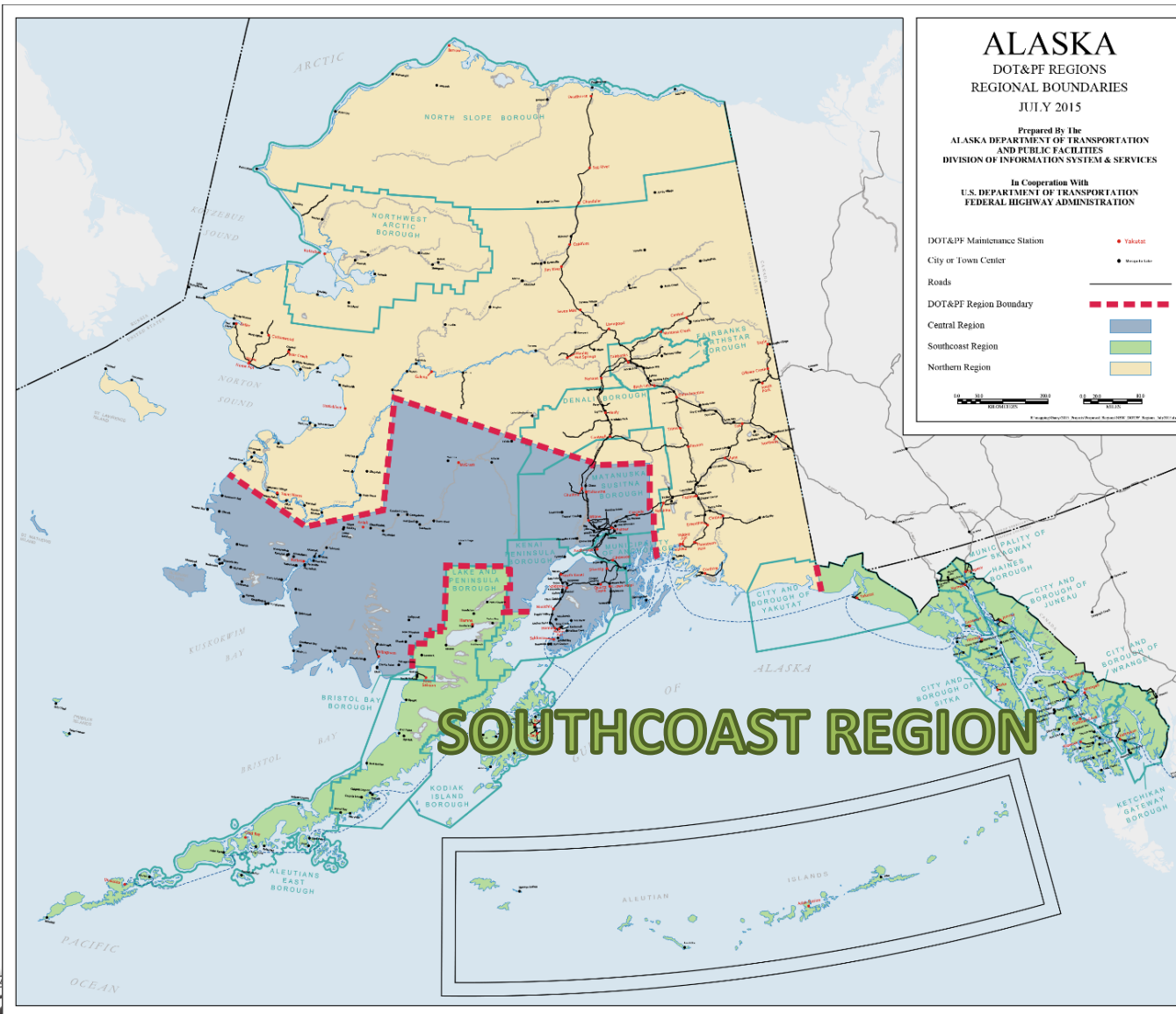


# KNIK GOOSE BAY ROAD RECONSTRUCTION

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



# Southcoast Region



## SOUTHCOAST REGION STATS

Road Lane Miles	1,528
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Maint. Stations	20
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Maintained Airports	44
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Seaplane Bases	17
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Bridges	186
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Harbors	15
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Communities	96
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Boroughs	12
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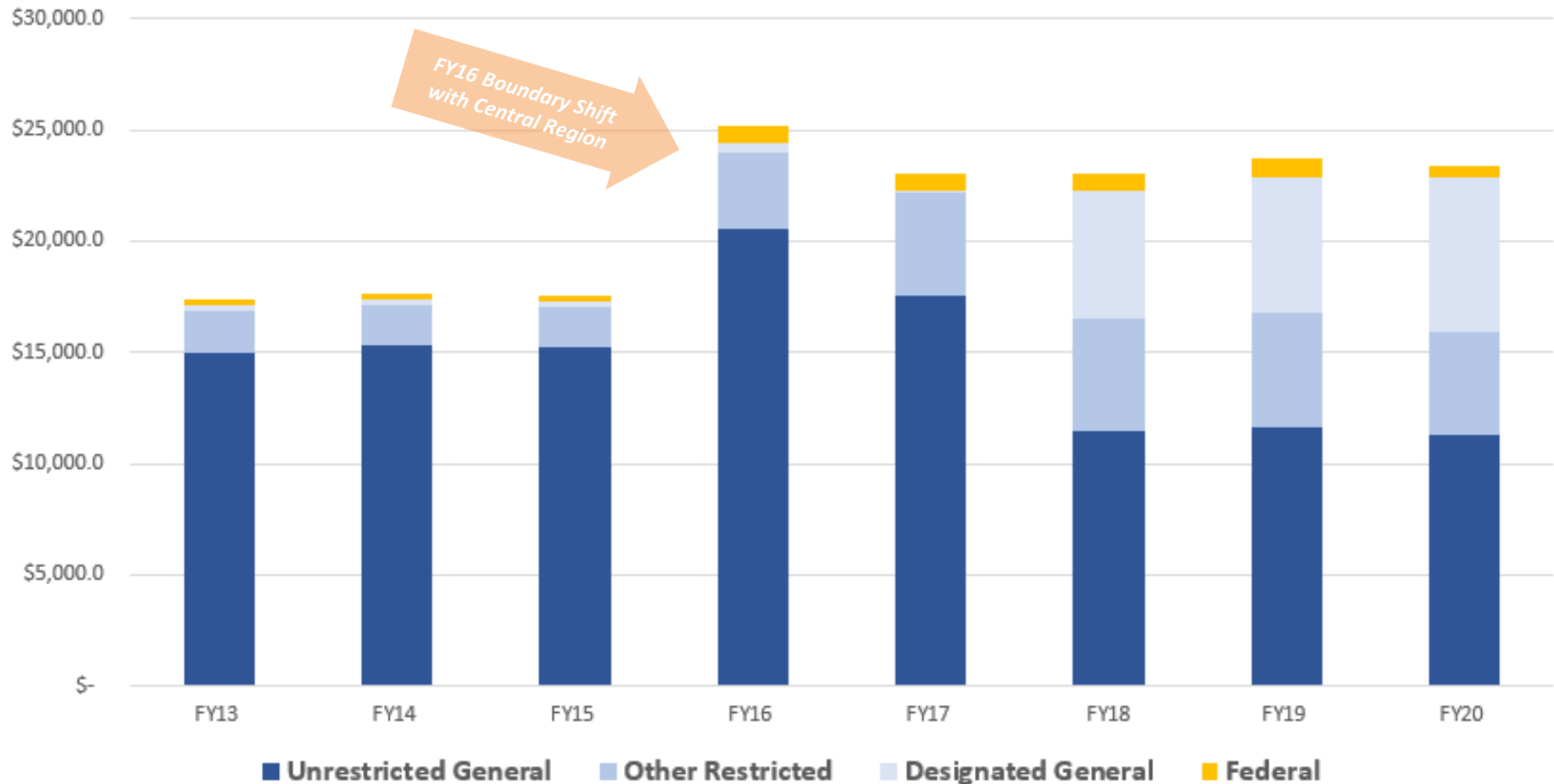
City Governments	51
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Tribes	60
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# Southcoast Region Operating Budget

## 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

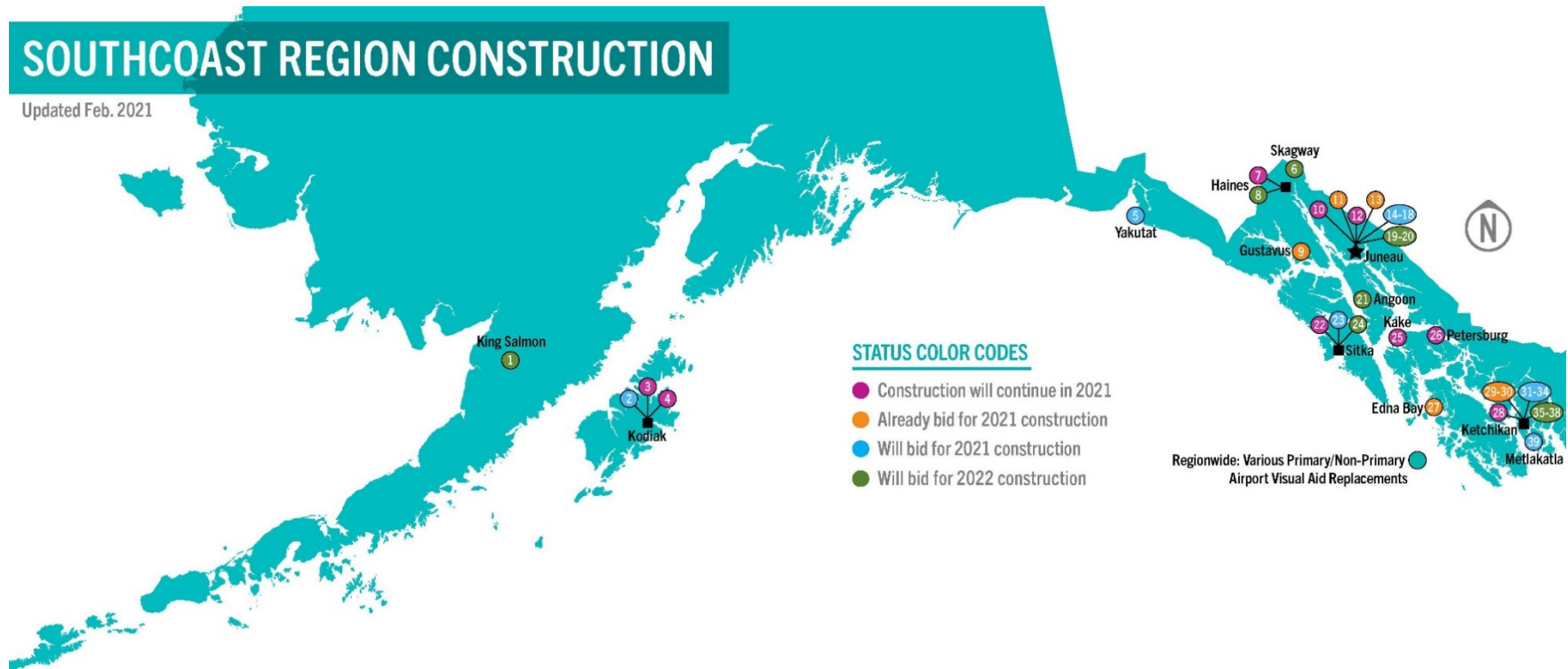
Number of Events	123	Meet Targets 63% of time	
	Target Time to Restore Road	Average Time to Restore Road	
Priority 1	12:00	8:33	
Priority 2	18:00	17:94	
Priority 3	24:00	26:69	
Priority 4	30:00	35:14	





# 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

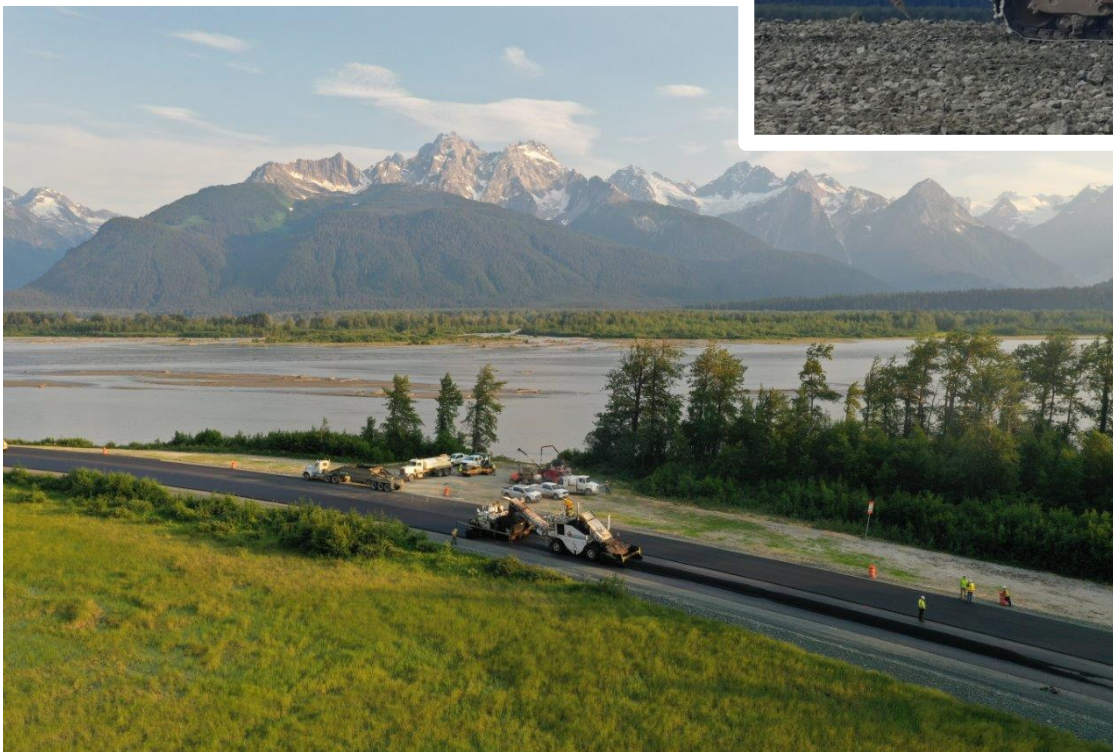
- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li><span style="color: green;">1</span> KING SALMON: AIRPORT PERIMETER FENCING UPGRADES</li> <li><span style="color: blue;">2</span> KODIAK: AIRPORT PERIMETER FENCING UPGRADES</li> <li><span style="color: purple;">3</span> KODIAK: HARBOR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



# 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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Central Region Director

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Southcoast Region Director

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Lance.Mearig@Alaska.gov

## Thank You.

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

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

