

SUBJECT: AN ORDINANCE OF THE MATANUSKA-SUSITNA BOROUGH ASSEMBLY TO ACCEPT, APPROPRIATE, AND APPROVE THE SCOPE OF WORK AND BUDGET FOR ADDITIONAL FUNDS FOR THE MSB ROADS PROJECT AS PART OF THE 2018 COOK INLET EARTHQUAKE DISASTER TO FUND 445 (EMERGENCY/DISASTER CAPITAL PROJECT), PROJECT NO. 55027.

AGENDA OF: SEPTEMBER 6, 2022

ASSEMBLY ACTION:

Adopted without objection

9-27-22

[Signature]

MANAGER RECOMMENDATION: Introduce and set for public hearing.

APPROVED BY MIKE BROWN, BOROUGH MANAGER:

[Signature]

Route To:	Department/Individual	Initials	Remarks
	Originator	TL-FIN	<i>[Signature]</i>
	Finance Director	<i>[Signature]</i>	
	Borough Attorney	<i>[Signature]</i>	
	Borough Clerk	<i>[Signature]</i>	<i>[Signature]</i>

ATTACHMENT (S) : Fiscal Note: YES X NO _____
Amendment No. 3, PW325 (7 pp)
Ordinance Serial No. 22-102 (2 pp)
Resolution Serial No. 22-081 (2 pp)

SUMMARY STATEMENT: On November 30, 2018 the Matanuska-Susitna Borough sustained damage to infrastructure due to a magnitude 7.0 earthquake. A borough, state and federal disaster declaration was issued for November 30, 2018. Allowed costs are eligible for 75% federal and 25% state funding assistance.

As a result of the earthquake, the Matanuska-Susitna Borough sustained severe damages to borough roads, bridges, schools, public facilities and infrastructure. PW (Project Worksheet) 325 was awarded for the MSB Road Bridges project in the amount of \$67,454.00. Additional costs have been identified totaling \$75,694.00. FEMA and the state have issued Amendment No. 3 for the increased cost as well as a cost share adjustment.

The cost share adjustment is Pursuant to 44CFR\$206.47(a), unless

the federal share is increased by the President, FEMA pays 75% of the eligible cost of permanent restorative work under section 406 of the Stafford Act and for emergency work under section 403 and section 407 of the Stafford Act. Under 44CFR§206.47(b)(4), an increase is recommended in federal cost share from 75% to not more than 90% of the eligible cost of permanent and emergency work whenever a disaster is so extraordinary that actual federal obligations under the Stafford Act, excluding FEMA administrative cost, meet or exceed a qualifying threshold.

This cost share adjustment will affect all projects, active and complete, of the 2018 November Cook Inlet Earthquake Disaster.

No action is required by the Borough to accept this cost share adjustment.

Recommendation of Administration: Respectfully request adoption of the legislation to accept, appropriate, and approve the scope of work and budget for \$75,694.00 of additional costs and cost share adjustment for the 2018 Cook Inlet Earthquake disaster.

MATANUSKA-SUSITNA BOROUGH
FISCAL NOTE

Agenda Date: September 6, 2022

SUBJECT: Accept, appropriate, and approve the scope of work and budget for a portion of the 2018 Cook Inlet Earthquake disaster relief monies, in the amount of \$75,694.00 to fund 445 (Emergency/Disaster Capital Project), project no. 55027.

ORIGINATOR: Finance

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT YES NO
AMOUNT REQUESTED \$75,694.00	FUNDING SOURCE State and Federal funds
FROM ACCOUNT # 445.000.000.4XX.XXX	PROJECT # 55027
TO ACCOUNT : 445.000.000.3XX.XXX	PROJECT # 55027
VERIFIED BY: <i>[Signature]</i>	CERTIFIED BY:
DATE: <i>8-24-22</i>	DATE:

EXPENDITURES/REVENUES:

(Thousands of Dollars)

OPERATING	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027
Personnel Services						
Travel						
Contractual						
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING						

CAPITAL		75.7				
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REVENUE						
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FUNDING:

(Thousands of Dollars)

General Fund						
State/Federal Funds		75.7				
Other						
TOTAL		75.7				

POSITIONS:

Full-Time						
Part-Time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

PREPARED BY: _____ PHONE: _____
 DEPARTMENT: *Chugach Peninsula* DATE: *8/24/22*
 APPROVED BY: _____ DATE: _____

IM No. 22-191
Ord. Serial No. 22-102
Resolution No. 22-081



**DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
DIVISION OF HOMELAND SECURITY
AND EMERGENCY MANAGEMENT**
Obligating Award Document for
Disaster - Public Assistance Presidentially Declared

FAIN: (Disaster Number) DR-4413-AK

CFDA No. 97.036 Date of Disaster Declaration 01/31/2019

1. Project Worksheet # 0325(2)	2. Category C	3. UEI # QRK7LJ2Y3RJ1	4. Award <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Amendment Number 3	5. Employer Tax ID # 92-0030816										
6. Subrecipient Name and Address Matanuska Susitna Borough 350 E Dahlia Avenue Palmer, AK 99645			7. Issuing Office and Address Department of Military and Veterans Affairs Division of Homeland Security and Emergency Management PO Box 5750 JBER, AK 99505-5750 http://www.ready.alaska.gov											
8. PW Obligation Date 11/3/2020			Agency: Federal Emergency Management Agency (FEMA)											
9. Purpose of Award/Amendment: Scope of Work Change (Cost Increase \$75,694.00) and 90/10 Cost Share Adjustment														
10. Grant Award and Terms and Conditions: (see attached Grant Terms and Conditions)														
<table> <tr> <td>Total Approved Amount:</td> <td>\$ 143,148.00</td> </tr> <tr> <td>Total Awarded Amount:</td> <td>\$ 143,148.00</td> </tr> <tr> <td>Federal Share:</td> <td>\$ 128,833.20</td> </tr> <tr> <td>State Share:</td> <td>\$ 14,314.80</td> </tr> <tr> <td>Subrecipient Share:</td> <td>\$ 0.00</td> </tr> </table>					Total Approved Amount:	\$ 143,148.00	Total Awarded Amount:	\$ 143,148.00	Federal Share:	\$ 128,833.20	State Share:	\$ 14,314.80	Subrecipient Share:	\$ 0.00
Total Approved Amount:	\$ 143,148.00													
Total Awarded Amount:	\$ 143,148.00													
Federal Share:	\$ 128,833.20													
State Share:	\$ 14,314.80													
Subrecipient Share:	\$ 0.00													
See attached: Approved PAGP Project Worksheet Grant Performance Period: 01/31/2019 through 09/30/2022														
11. Grant Requirements, Assurances and Agreements: (see attached Grant Requirements, Assurances and Agreements) The acceptance of a grant from the United States creates a legal duty on the part of the grantee to use the funds or property made available in accordance with the conditions of the grant. (GAO Accounting Principles and Standards for Federal Agencies, Chapter 2, Section 16.8[c]). Federal awarding agency is the Federal Emergency Management Agency (FEMA).														
12. Project Award Title: MSB Road Bridges														
13. Recipient is required to sign and return one (1) copy of this document with the terms and conditions to the issuing address in Block 6, within 30 days from the date in Block 17.														
14. DHS&EM Project Manager			Phone: (907) 428-7036 Fax: (907) 428-7009 Email: jenny.belanger@alaska.gov											
Printed Name of SPAO: Jenny Belanger														
15. Signature of Jurisdiction Project Manager			Phone: (907) 861-8004 Fax: (907) 861-8014 Email: casey.cook@matsugov.us											
Printed Name: Casey Cook														
16. Signature of Jurisdiction Chief Financial Officer			Phone: (907) 861-8630 Fax: (907) 861-8592 Email: cheyenne.heindel@matsugov.us											
Printed Name: Cheyenne Heindel														
17. Signature of Jurisdiction Signatory Official			Date: Phone: (907) 861-8689 Fax: (907) 861-8669 Email: mike.brown@matsugov.us											
Printed Name and Title: Michael Brown, Borough Manager														
18. DHS&EM Signatory Official William A. Dennis Alternate Governor's Authorized Representative			Date: 8/16/22 Phone: (907) 428-7000 Fax: (907) 428-7009 Email: bill.dennis@alaska.gov											

Turn over to complete instruction acknowledgement.

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Grant Award Instructions

As a subrecipient, you are only entitled to costs that are eligible. All eligible work must conform to the Scope of Work as specified in the applicable Project Worksheet (PW). Do not assume all costs or changes will be allowed at project completion. Any change request must contain justification for the eligibility of additional costs or work.

All Emergency Work PWs (Category A and B: "Emergency Work") must be complete six months from the date of the Disaster Declaration. All Permanent Work PWs (Categories C-G, "Permanent Work") must be complete 18 months from the date of the Disaster Declaration. If more time is required, contact your Division Representative before the associated deadline to request a Time Extension. Ample justification is required for approval of any Time Extension Request.

Please carefully review the Damage Description and Dimensions, Scope of Work, and Cost Estimate. If you do not agree with the PW as written, or determinations regarding project eligibility, Scope of Work, time limits, funding, or other determinations, an appeal process is available. This process requires written correspondence identifying the action under appeal with an appropriate justification within 60 days of receipt of this Award. Please attach all pertinent documentation supporting your appeal and mail to:

Bryan J. Fisher, Director
Division of Homeland Security
and Emergency Management
PO Box 5750
JBER, AK 99505

Failure to follow these guidelines will jeopardize project funds and may impact future disaster assistance. Additional PWs pending approval will be transmitted in future correspondence. Please review all PWs and ask us about pending PWs to ensure all damaged sites or facilities are identified.

As the Authorized Representative of the Matanuska Susitna Borough,
I have reviewed these instructions and acknowledge our appeal rights and responsibilities under the
Public Assistance Program.

Printed Name and Title of Authorized Representative

Signature

Date

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PA-10-AK-4413-PW-00325(2) P	
Applicant Name:	Application Title:
MATANUSKA-SUSITNA BOROUGH	94867 - MSB Road Bridges
Period of Performance Start:	Period of Performance End:
01-31-2019	09-30-2022

Bundle Reference # (Amendment #)	Date Awarded
PA-10-AK-4413-PW-00325(308)	11-03-2020

Subgrant Application - FEMA Form 90-91

Note: The Effective Cost Share for this application is 90%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET						
DISASTER				PROJECT NO.	PA ID NO.	DATE
FEMA	4413	-	DR	-AK	94867	170-008F3-00
						07-22-2020
APPLICANT: MATANUSKA-SUSITNA BOROUGH					WORK COMPLETE AS OF:	
					07-22-2020 : 0 %	
Site 1 of 2						
DAMAGED FACILITY:					COUNTY: Matanuska-Susitna	
Damage #281685; Cottonwood Creek Bridge 2287						
LOCATION:					LATITUDE:	LONGITUDE:
PA-10-AK-4413-PW-00325(0): Cottonwood Creek Bridge					61.51961	-149.5409
Current Version:						
DAMAGE DESCRIPTION AND DIMENSIONS:						
PA-10-AK-4413-PW-00325(0): The Disaster #4413DR, which occurred between 11/30/2018 and 11/30/2018, caused:						
Damage #281685; Cottonwood Creek Bridge 2287						
On 11/30/2018 an earthquake of 7.2 was recorder in Anchorage AK, which caused damage to many buildings, roads and bridges. The applicant is claiming damage to 2 bridges, Cottonwood Creek Bridge and Little SU Bridge. Applicant will be using an engineering firm to do the structure assessment.						
The following damages were inspected:						
General Facility Information:						
Facility Type: Bridges						
Facility: Matruska-Sustina Borough						
Facility Description: Concrete deck single span bridge						
Approx. Year Built: 1990						
Location Description: Cottonwood Creek Bridge						
GPS Latitude/Longitude: 61.51961, -149.54091						
Bridge Span Type: Simple						
Number of Spans: 1						
Type of Decking: Concrete						
Length (ft): 52						

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Width (ft): 24

Height (ft): 30

Number of Lanes: 2

General Damage Information:

Date Damaged: 11/30/2018

Cause of Damage: Earthquake (9)

Bridge Damage:

Abutment:

Abutments, 42.6667 CY of Under span abutment area, 24 FT long x 8 FT wide x 6 FT deep, seismic movement from earthquake caused soil(borrow backfill) to separate from wall, 0% work completed.

Embankment:

Embankment, 29.6296 CY of Slope fill SW failure, 20 FT long x 20 FT wide x 2 FT deep, damaged caused by earthquake, 0% work completed.

Embankment, SW slough fissure 1 foot depth, 50 LF long, damaged by earthquake, 0% work completed.

Surface:

Surface, Single span bridge with asphalt decking, 20 LF long, cracking caused by severe seismic event-earthquake, 0% work completed.

Current Version:

SCOPE OF WORK:

PA-10-AK-4413-PW-00325(0):

Scope to Restore to Pre-Disaster Condition

The Disaster #4413DR, which occurred between 11/30/2018 and 11/30/2018, caused:

281685 Cottonwood Creek Bridge 2287

Work to be completed

This damaged facility, Cottonwood Creek Bridge 2287, is being written for Version 0 to capture the estimated Architect & Engineering (A&E) services required to determine the method of repair/Codes and Standards for this facility

Bridge Damage:

Abutments:

A. Remove and Replace 42.67 CY of Soil

Embankment:

A. Remove and Replace 29.63 CY of Slope Fill

Surface

A. Remove and Replace 20 LF of Asphalt

A&E Services:

A. Preliminary Engineering Analysis.

B. A&E Design Contract.

Total A/E Validated Total: \$9,223.00

Project Notes:

Quantities in DDD and scope are estimated based on restoring to pre-disaster profile as the eligible damages.

1. This project is to provide funding to the Sub-recipient is based on a preliminary estimate for architectural and engineering services related to the restoration of the damaged facility provided by the applicant and found to be reasonable.

2. The intent of these A&E services is for the technical evaluation of damages to facilitate the design of the solution/repair/restoration related to this PAAP permanent work project. The permanent work DDD/SOW will be captured in a following Project version.

3. Hazard Mitigation 406 cannot be applied to an A&E version of a Project (Version 0), however, hazard mitigation opportunities may exist and be applied to the Permanent Work Project (Version 1) developed for this Sub-recipient. Hazard Mitigation opportunities should be considered during development of the Public Assistance repair Scope of Work.

4. This PW has been written for engineering and surveying services only. No permanent work or repair design is included in this estimate. Until

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a new version of the PW is prepared with the confirmed Scope of Work, the applicant may only apply for reimbursement of these actual costs. Should the A&E Study require a geotechnical investigation to determine the appropriate damage repair, the geotechnical investigation would be limited to investigative borings that may be performed within the previously disturbed roadway prism within the public right of way. Should it be determined that a geotechnical investigation would require equipment access and staging off of hard surfaces (e.g. preexisting paved or gravel surfaces) or any ground disturbing activities such as clearing and grubbing, shovel tests, trenching, etc., a scope of work for the proposed ground disturbing activities shall be provided for further review in advance of conducting the work.

7. The A/E costs are based on the CEF guidelines. See attached: ST 94867 CEF B

Current Version:

Site 2 of 2

DAMAGED FACILITY:

Damage #281690; Sushana Dr at Little Su Bridge

COUNTY: Matanuska-Susitna

LOCATION:

PA-10-AK-4413-PW-00325(0);
Little Su Bridge

LATITUDE:
61.65576

LONGITUDE:
-149.46342

Current Version:

DAMAGE DESCRIPTION AND DIMENSIONS:

PA-10-AK-4413-PW-00325(0);
Damage #281690; Sushana Dr at Little Su Bridge

On 11/30/2018 an earthquake of 7.2 was recorder in Anchorage AK. which caused damage to many buildings, roads and bridges. The applicant is claiming damage to 2 bridges,, Cottonwood Creek Bridge and Little SU Bridge. Applicant will be using an engineering firm to do the structure assessment.

The following damages are as follows:

General Facility Information:

Facility Type: Bridges

Facility: Little SU Bridge

Facility Description: Concrete beam, double span bridge with guardrails.

Approx. Year Built: 1984

Location Description: Little Su Bridge - 61.65576, -149.46342

GPS Latitude/Longitude: 61.65576, -149.46342

Bridge Span Type: Simple

Number of Spans: 2

Type of Decking: Concrete

Length (ft): 186

Width (ft): 30

Height (ft): 30

Number of Lanes: 2

General Damage Information:

Date Damaged: 11/30/2018

Cause of Damage: Earthquake

Bridge Damage:

North Side:

Abutments, 31 SF of Concrete Wall - under span, N/A, has several cracks, due to the seismic event, 0% work completed.

Surface, 2 CY of Asphalt, 30 FT long x 10 FT wide x 2 IN deep, has several cracks, due to the seismic event, 0% work completed.

South Side:

Substructure, 36 SF of Middle pier, concrete wall - under span , 3 FT long x 3 FT wide, 4 each of 3' X 3' areas of cracking, due to severe seismic event-earthquake, 0% work completed.

Surface, 2 CY of asphalt, 30 FT long x 10 FT wide x 2 IN deep, has several cracks, due to the seismic event, 0% work completed.

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Current Version:

SCOPE OF WORK:

PA-10-AK-4413-PW-00325(0):

Scope to Restore to Pre-Disaster Condition

281690 Sushana Dr at Little Su Bridge

Matanuska Susitna Borough

Work to be completed

This damaged facility, Sushana Dr at Little Su Bridge, is being written for Version 0 to capture the estimated Architect & Engineering (A&E) services required to determine the method of repair/Codes and Standards for this facility

Bridge Damage:

North Side:

- A. Repair 31 LF of Concrete Wall *See Scope Note 1.
- B. Remove and Replace 2 CY of Asphalt Surface

South Side:

- A. Repair 36 SF of Concrete Wall
- B. Remove and Replace 2 CY of Asphalt Surface

A&E Services:

- A. Preliminary Engineering Analysis.
- B. A&E Design Contract.

Total A/E Validated Total: \$15,031.00

Current Version:

04/19/2022***** Version 1 of PW 325 ***** HS

This PW version is being prepared to amend the Scope of Work (SOW) by awarding additional Architectural and Engineering (A&E) and removing the estimated 406 Hazard Mitigation Proposal (HMP) that was awarded at project formulation in the amount of \$43,200.00. V1 awards an additional \$118,894.00 for engineering and design services.

Based on a preliminary information, such as site inspection reports, PND Engineering estimated the cost to restore the damaged facility to pre-disaster design, function, and capacity is estimated to cost \$300,378.00 (see "DR4413 MSB PW 325 V1 Cost Estimates" for more information regarding the recommended repairs and concept level estimates). However, this version only awards additional A&E to facilitate the design and method of repair.

V0 obligated \$24,254.00 for A&E to determine the method of repair to restore the facility back to pre-disaster condition. The Subrecipient competitively bid the pre-engineering services, permitting, engineering design, administrative services, record drawing, and construction administration. V1 is being prepared to capture actual costs for the above services to be provided by PND Engineering, Inc. totaling \$143,148.00 (see "DR4413 MSB PW 325 V1 Cost Estimates" for a detailed breakdown of the fee summary provided). The Subrecipient will use the additional A&E services for the technical evaluation of damages to facilitate the design of the solution/repair/restoration related to this project and submit a SOW change request to revise the Damage Description and Dimensions (DDD) and SOW to reflect actual damages and method of repair at a later date.

Work to Be Completed

- A. Survey (Task 1): \$12,880.00
- B. Hydrologic and Hydraulic Analysis (Task 2): \$24,013.00
- C. Permitting (Task 3): \$10,065.00
- D. Design and Bidding (Task 4): \$35,251.00
- E. Construction Management (Task 5): \$60,939.00

Work to Be Completed Total: \$143,148.00

Project Notes:

- 1) V0 obligated funds based on preliminary engineering reports and design; the Subrecipient confirmed that the initial estimates were low when considering the overall complexity of repair work on bridge structures and work near water.
- 2) V0 Site 1 scope note 2 indicates this is a PAAP project. The Subrecipient has not submitted any requests to participate in the Alternative Procedures Pilot Program for Permanent Work Projects and a fixed estimate was not agreed upon. This project will be processed as a standard lane project.
- 3) FEMA will create a subsequent project version/ amendment to approve and capture a required scope of work. Reconstruction work must not be commenced without prior FEMA approval of the reconstruction scope of work. The version approval will require a detail scope proposal, cost estimate, and justification to support the required method of reconstruction.

The State of Alaska's Department of Military and Veterans' Affairs Division of Homeland Security and Emergency Management (DHS & EM) submitted Matanuska Susitna Borough's request for an approval of the cost increase of \$118,894.00, and State's support of this request for an increase in the overall project amount.

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The project will be reimbursed at the approved federal share of actual, eligible costs. An additional PW version will be written once construction design is determined.

Does the Scope of Work change the pre-disaster conditions at the site? Yes No	Special Considerations included? Yes No
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Hazard Mitigation proposal included? Yes No	Is there insurance coverage on this facility? Yes No
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PROJECT COST

ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		*** Version 0 ***			
		Work To Be Completed			
1	3510	Engineering And Design Services	1/LS	\$ 9,223.00	\$ 9,223.00
2	3510	Engineering And Design Services	1/LS	\$ 15,031.00	\$ 15,031.00
		*** Version 2 ***			
		Work To Be Completed			
3	3510	Engineering And Design Services	1/LS	\$ 118,894.00	\$ 118,894.00
4	0909	Hazard Mitigation Proposal	1/LS	\$ 0.00	\$ 0.00
				TOTAL COST	\$ 143,148.00
PREPARED BY Kenneth R Smith		TITLE PDMG	SIGNATURE		
APPLICANT REP. Casey Cook		TITLE Emergency Manager	SIGNATURE		

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