

**FIVE-YEAR  
CAPITAL IMPROVEMENT PROGRAM (CIP)  
(2022-2026)  
WATERLOO REGIONAL AIRPORT**

*Prepared for:*  
Waterloo Regional Airport



*Prepared by:*  
AECOM

**AECOM**

*February 12, 2021*

**FEDERAL AIRPORT IMPROVEMENT PROGRAM (AIP)  
PREAPPLICATION CHECKLIST**

**Please attach the following documents with your application.**

- ☒ Sponsor Identification Sheet for the Airport
- ☒ Capital Improvement Program (CIP) Data Sheet (one for each project listed in the first three years of the CIP) and detailed cost estimate for each data sheet
- ☒ Five-Year CIP
- ☒ Long-Range Needs Assessment
- ☐ Verification of an updated airport layout plan (ALP) (when applying for new construction of buildings or airfield expansion)
- ☐ Verification of completed environmental processing in accordance with National Environmental Policy Act of 1969
- ☐ Verification of completed land acquisition or signed purchase agreement
- ☒ Verification of pavement maintenance program (when applying for pavement preservation or reconstruction)
- ☐ If requesting federal assistance for snow removal equipment, please include an inventory of the existing equipment and calculations based on Chapters 4 and 5 of the Airport Winter Safety and Operations Advisory Circular (AC) 150/5200-30 and the Airport Snow and Ice Control Equipment AC 150/5220-20 showing the minimum equipment needed, along with the Airport Capital Improvement Plan (ACIP) Data Sheet, include a copy of a completed Federal Aviation Administration's snow removal equipment spreadsheet.
- ☐ If requesting federal assistance for general aviation apron expansion, include a copy of a completed FAA apron design spreadsheet.
- ☐ If requesting pavement reconstruction, submit an engineering report showing the need for the reconstruction as part of the CIP justification.
- ☐ For revenue-producing facilities (i.e., fueling facilities and hangars), please submit:
  - 1) A statement that airside development needs are met or include a financial plan to fund airside needs over the next three years.
  - 2) A statement that runway approach surfaces are clear of obstructions (the FAA Airport 5010 should show at least a 20:1 clear approach).
  - 3) Justification for the project.
- ☒ System for Award Management (SAM) registration is up to date ([www.sam.gov](http://www.sam.gov))

Please e-mail this form with supporting documents identified in the checklist to [shane.wright@iowadot.us](mailto:shane.wright@iowadot.us).

Attn.: Program Manager  
Aviation Bureau  
Iowa Department of Transportation  
800 Lincoln Way  
Ames, IA 50010

E-mail: [shane.wright@iowadot.us](mailto:shane.wright@iowadot.us)  
FAX: 515-233-7983  
Phone: 515-239-1048

**AIRPORT SPONSOR IDENTIFICATION SHEET**

**\*\*\* PLEASE ONLY SUBMIT IT YOU HAVE CHANGES FROM PREVIOUS YEAR. \*\*\***

Airport Name: Waterloo Regional Airport

Airport sponsor(s) Name: City of Waterloo, Iowa

Contact Person: Mr. Keith D. Kaspari

Title: Director of Aviation

Email Address: Keith.Kaspari@waterloo-ia.org

Physical Mailing Address: 2790 Livingston Lane

P.O. Box (if applicable): \_\_\_\_\_

City: Waterloo

State: Iowa

ZIP Code: 50703

Phone: 319-291-4483

U.S. Congressional District Number: 1st

Tax Identification Number: 42-6005333

Dun and Bradstreet Number (DUNS): 826186959

You **must** have a current System for Award Management (SAM) registration to receive a grant.

Register at: <https://www.sam.gov>.

Please email (PDF) your completed preapplication, Capital Improvement Program (CIP), long-range needs assessment, signed CIP data sheets, and all supporting documents to your state agency and Federal Aviation Administration planner at [jeff.deitering@faa.gov](mailto:jeff.deitering@faa.gov).

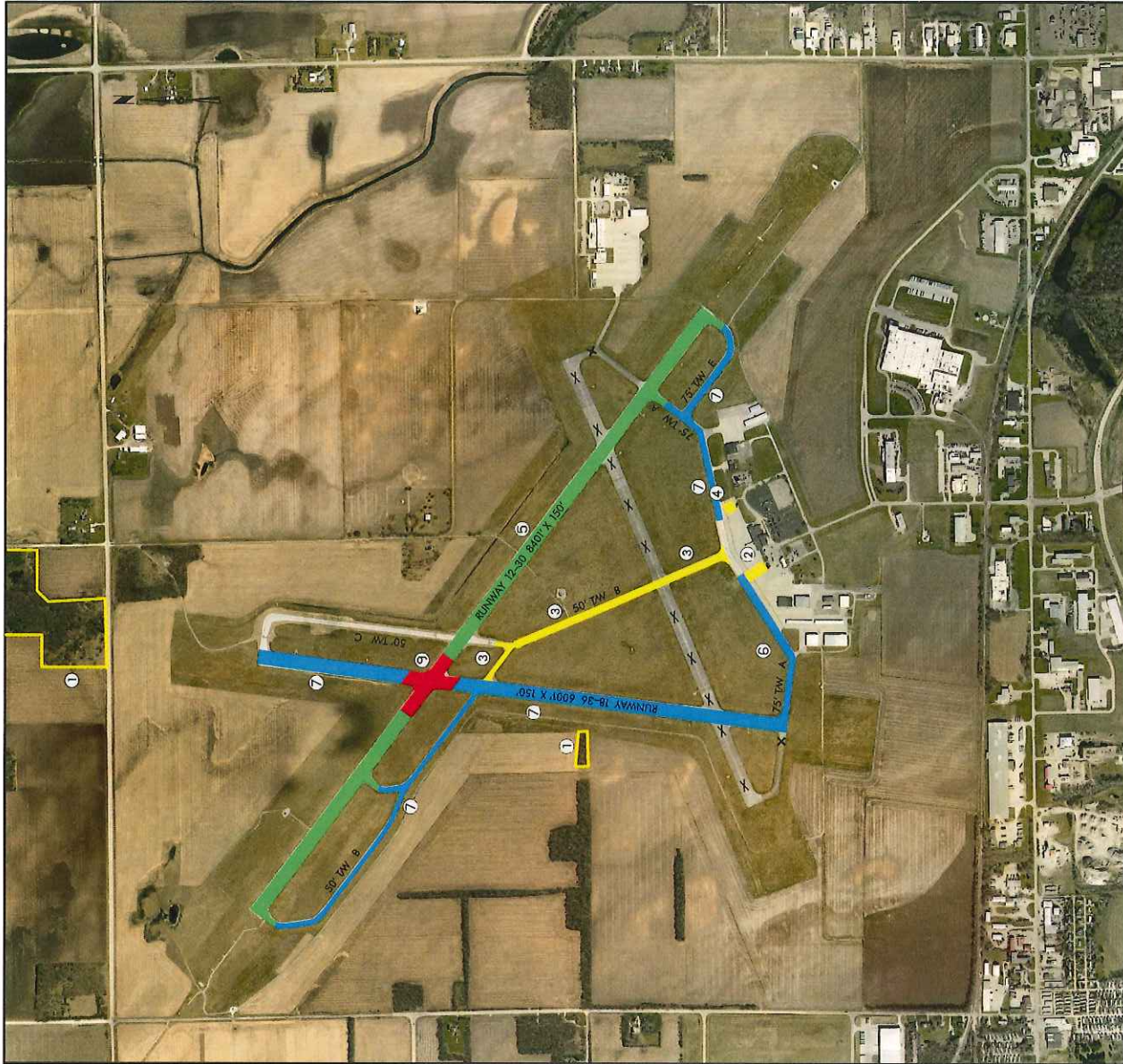




FEDERAL AVIATION ADMINISTRATION  
AIRPORT IMPROVEMENT PROGRAM FUNDING  
5-YEAR CAPITAL IMPROVEMENTS PLAN

PROJECT DESCRIPTION	AP	LOCAL MATCH (10%)	TOTAL
FISCAL YEAR 2021 THRU FISCAL YEAR 2022			
① OBSTRUCTION MITIGATION			
② RECONSTRUCT TERMINAL APRON - PHASE 4			
③ RECONSTRUCTION OF TAXIWAY B			
④ CLEAN/RESEAL JOINTS - EAST TERMINAL APRON			
TOTAL FISCAL YEAR 2020	3,333,364		3,333,364
TOTAL FISCAL YEAR 2021	1,111,111	111,111	1,111,111
TOTAL FISCAL YEAR 2022	370,241	41,138	411,379
TOTAL FISCAL YEARS 2021 THRU FISCAL YEAR 2022	4,703,605	152,249	4,855,854
* 100% FAA FUNDS FOR \$3,333,376 of PROJECT - REMAINDER @ 90% FAA FUNDING			
** \$ 629,759 ENTITLEMENT FUNDS REMAINING FROM PROJECTS 1 THRU 4			
FISCAL YEAR 2022			
NO PROJECT - BANK FUNDS FOR FY 2023			
\$ 629,759 ENTITLEMENT FUNDS REMAINING AFTER FY 2022			
FISCAL YEAR 2023			
⑤ PAVEMENT MAINTENANCE (RUNWAY 12-30)	801,000	89,000	890,000
TOTAL FISCAL YEAR 2023	801,000	89,000	890,000
\$ 629,759 ENTITLEMENT FUNDS REMAINING AFTER FY 2023			
FISCAL YEAR 2024			
NO PROJECT - BANK FUNDS FOR FY 2025			
\$ 1,828,759 ENTITLEMENT FUNDS REMAINING AFTER FY 2024			
FISCAL YEAR 2025			
⑥ TAXIWAY A WEST (DESIGN AND CONSTRUCTION)	2,329,656	258,851	2,588,506
⑦ AIRFIELD PAVEMENT MARKING (RUNWAY 18-36 AND TAXIWAYS)	336,416	37,380	373,795
⑧ UPDATE PAVEMENT MANAGEMENT PROGRAM	90,000	10,000	100,000
TOTAL FISCAL YEAR 2025	2,756,071	306,230	3,062,301
\$ 72,688 ENTITLEMENT FUNDS REMAINING AFTER FY 2025			
FISCAL YEAR 2026			
⑨ RUNWAY 18-36 & RUNWAY 12-30 INTERSECTION REHABILITATION INSIDE OF RUNWAY SAFETY AREA	1,031,184	114,576	1,145,760
TOTAL FISCAL YEAR 2026	1,031,184	114,576	1,145,760
\$ 41,504 ENTITLEMENT FUNDS REMAINING AFTER FY 2026			
AP GRAND TOTAL	9,291,860	662,055	9,953,915

AIP - FEDERAL PARTICIPATION







**FIVE-YEAR AIRPORT  
CAPITAL IMPROVEMENT PROGRAM (CIP)**

Attach additional sheets if necessary.

Airport Name, LOCID, City, State: Waterloo Regional Airport (ALO), Waterloo, Iowa

Prepared by: AECOM Sponsor's E-mail: KEITH.KASPARI@WATERLOO-IA.ORG

Date Prepared: February 12, 2021 Sponsor's Signature: \_\_\_\_\_

Sponsor's Phone: 319-291-4483 Printed Name: Keith D. Kaspari

FY	Detailed project/scope description	Funding source	Total estimated cost
2022	Obstruction Mitigation, Reconstruction of Terminal Apron- Phase 4, Reconstruction of Taxiway B, Clean/Reseal Joints - East Terminal Apron	Federal: \$ State: \$ Local: \$ Total: \$	4,703,605  152,249 4,855,854
2023	Pavement Maintenance (Runway 12-30) - Pavement rejuvenator, crack sealing and pavement marking.	Federal: \$ State: \$ Local: \$ Total: \$	801,000  89,000 890,000
2024	No Project - Bank Funds for FY 2025	Federal: \$ State: \$ Local: \$ Total: \$	   
2025	Taxiway A West Reconstruction, Airfield Pavement Marking (Runway 18-36 and Taxiways), Update Pavement Management Program	Federal: \$ State: \$ Local: \$ Total: \$	2,756,071  306,230 3,062,301
2026	Runway 18-36 & Runway 12-30 Intersection Rehabilitation Inside of the Runway Safety Area	Federal: \$ State: \$ Local: \$ Total: \$	1,031,184  114,576 1,145,760

# LONG-RANGE NEEDS ASSESSMENT YEARS SIX TO 20

Attach additional sheets if necessary.

Airport name Waterloo Regional Airport (ALO), Waterloo, Iowa

Estimated FY	Description of project	Funding source	Total estimated cost
2027	Runway 18-36 Rehabilitation (Asphalt Section Only outside of the Runway 12-30 Runway Safety Area)	Federal \$ State \$ Local \$ Total \$	2,354,400  261,600 2,616,000
2028	ARFF Vehicle Replacement	Federal \$ State \$ Local \$ Total \$	990,000  110,000 1,100,000
2029	Snow Removal Equipment	Federal \$ State \$ Local \$ Total \$	990,000  110,000 1,100,000
2030	Runway 12-30 Evaluation and Design	Federal \$ State \$ Local \$ Total \$	832,500  92,500 925,000
2031	Runway 12-30 Reconstruction - Phase 1 of 4	Federal \$ State \$ Local \$ Total \$	3,506,400  389,600 3,896,000
2032	Runway 12-30 Reconstruction - Phase 2 of 4	Federal \$ State \$ Local \$ Total \$	3,506,400  389,600 3,896,000



# FEDERAL AVIATION ADMINISTRATION

# CIP DATA SHEET

CAPITAL IMPROVEMENT PROGRAM (CIP)  
AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
<b>Airport Name, LOCID, City, State:</b>	Waterloo Regional Airport, ALO, Waterloo, Iowa		
<b>AIP Project Type:</b>	Pavement Maintenance Runway 12-30		
<b>Local Priority:</b>	1 - Very High	<b>Federal Share:</b>	\$ 801,000
<b>FFY Requested:</b>	2023	<b>State Share:</b>	\$0
<b>Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.</b>		<b>Local Share:</b>	\$89,000
		<b>Total Project Cost:</b>	\$ 890,000

Runway 12/30 is the primary instrument approach runway at the Waterloo Regional Airport. The most recently completed Pavement Evaluation Study completed in 2017 showed that Runway 12/30 was last rehabilitated in 2006. The current PCI of the Runway is in the mid 70 ranges indicating that the pavement is rated in a satisfactory condition but is showing signs of oxidation and some raveling of the pavement surface.

A pavement rejuvenator with crack and joint repair is needed to extend the pavement life. The entire runway pavement markings will be remarked as part of this project.

See following page for detailed cost estimate.



## SPONSOR SIGNATURE BLOCK

<b>Signature:</b>		<b>Date:</b>	2/12/2021
<b>Printed Name:</b>	Keith D. Kaspari, MPA, C.M.	<b>Title:</b>	Director of Aviation
<b>Phone Number:</b>	319-291-4483	<b>Email:</b>	KEITH.KASPARI@WATERLOO-IA.ORG

ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST  
 WATERLOO REGIONAL AIRPORT  
 RUNWAY 12-30 REHABILITATION

2/1/2021

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED
					TOTAL
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 6,500.00	\$ 6,500.00
2	PAVEMENT JOINT AND CRACK REPAIR	30,000	LFT	\$ 1.10	\$ 33,000.00
3	PAVEMENT REJUVINATOR (RUNWAY 12-30)	150,000	SYD	\$ 1.65	\$ 247,500.00
4	PAVEMENT MARKING (RUNWAY 12-30)	170,000	SFT	\$ 2.50	\$ 425,000.00
		SUBTOTAL			\$ 712,000.00
6	LEGAL, ADMINISTRATION AND ENGINEERING				\$ 178,000.00
		TOTAL ESTIMATED PROJECT COST			\$ 890,000.00



**FEDERAL AVIATION ADMINISTRATION**

CAPITAL IMPROVEMENT PROGRAM (CIP)

AIRPORTS DIVISION - CENTRAL REGION

**CIP DATA SHEET**

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
<b>Airport Name, LOCID, City, State:</b>	Waterloo Regional Airport, ALO, Waterloo, Iowa		
<b>AIP Project Type:</b>	Taxiway A West Reconstruction		
<b>Local Priority:</b>	1 - Very High	<b>Federal Share:</b>	\$ 2,329,656
<b>FFY Requested:</b>	2025	<b>State Share:</b>	\$0
<b>Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.</b>		<b>Local Share:</b>	\$ 258,851
		<b>Total Project Cost:</b>	\$ 2,588,506

Taxiway A West serves as the primary taxiway for access to Runway 36 at the Waterloo Regional Airport.

The most recently completed Pavement Evaluation Study completed in 2017 showed that Taxiway A West was last rehabilitated in 1978. The current PCI of the taxiway ranges from a value of 32 to a high of 51 indicating that the pavement is rated ranges from a very poor to fair condition and requires reconstruction.

Reconstruction will be completed with a rigid pavement section with a drainage layer. Project will also include replacement of the aging taxiway edge lights, cabling and guidance signs in this section of the airfield.

See following page for detailed cost estimate.

**SPONSOR SIGNATURE BLOCK**

<b>Signature:</b>		<b>Date:</b>	2/12/2021
<b>Printed Name:</b>	Keith D. Kaspari, MPA, C.M.	<b>Title:</b>	Director of Aviation
<b>Phone Number:</b>	319-291-4483	<b>Email:</b>	KEITH.KASPARI@WATERLOO-IA.ORG

ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST  
WATERLOO REGIONAL AIRPORT  
TAXIWAY A WEST REHABILITATION (PCC RECONSTRUCTION)

2/8/2021

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED
					TOTAL
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 270,105.00	\$ 270,105.00
2	PAVEMENT REMOVAL	15,500	SYD	\$ 4.50	\$ 69,750.00
3	SHOULDER REMOVAL	3,650	SYD	\$ 3.00	\$ 10,950.00
4	BASE COURSE	-	SYD	\$ 20.00	\$ -
5	DRAINAGE LAYER	15,500	SYD	\$ 35.00	\$ 542,500.00
6	13" PCC PAVEMENT	15,500	SYD	\$ 65.00	\$ 1,007,500.00
7	PAVEMENT MARKING AND RESTORATION	1	LS	\$ 16,000.00	\$ 16,000.00
8	TAXIWAY LIGHTING (50 MITL)	50	EACH	\$ 1,200.00	\$ 60,000.00
9	AIRFIELD GUIDANCE SIGNS	5	EACH	\$ 7,500.00	\$ 37,500.00
10	TOPSOILING	1,500	CY	\$ 25.00	\$ 37,500.00
11	SEEDING AND MULCHING	2	AC	\$ 4,500.00	\$ 9,000.00
12	EROSION CONTROL	1	LS	\$ 10,000.00	\$ 10,000.00
		SUBTOTAL			\$ 2,070,805.00
13	LEGAL, ADMINISTRATION AND ENGINEERING				\$ 517,701.25
		TOTAL ESTIMATED PROJECT COST			\$ 2,588,506.25



**FEDERAL AVIATION ADMINISTRATION****CIP DATA SHEET**

CAPITAL IMPROVEMENT PROGRAM (CIP)  
AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
<b>Airport Name, LOCID, City, State:</b>	Waterloo Regional Airport, ALO, Waterloo, Iowa		
<b>AIP Project Type:</b>	Airfield Pavement Marking (Runway 18-36 and Taxiways)		
<b>Local Priority:</b>	1 - Very High	<b>Federal Share:</b>	\$ 336,416
<b>FFY Requested:</b>	2025	<b>State Share:</b>	\$0
<b>Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.</b>		<b>Local Share:</b>	\$ 37,380
		<b>Total Project Cost:</b>	\$ 373,795

The airfield markings at the Waterloo Regional Airport were last remarked during the Spring of 2018.

These airfield markings require constant maintenance approximately every five (5) years to maintain reflectivity and visibility of the markings. Full remarking of Runway 18/36, Taxiway A, Taxiway B, Taxiway C and Taxiway E would be accomplished as part of this project.

See following page for detailed cost estimate.

**SPONSOR SIGNATURE BLOCK**

<b>Signature:</b>		<b>Date:</b>	2/12/2021
<b>Printed Name:</b>	Keith D. Kaspari, MPA, C.M.	<b>Title:</b>	Director of Aviation
<b>Phone Number:</b>	319-291-4483	<b>Email:</b>	KEITH.KASPARI@WATERLOO-IA.ORG



ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST  
 WATERLOO REGIONAL AIRPORT  
 AIRFIELD PAVEMENT MARKING

2/1/2021

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED
					TOTAL
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 17,000.00	\$ 17,000.00
2	RUNWAY 18/36	85,000	SFT	\$ 2.50	\$ 212,500.00
3	TAXIWAY A, B, C & E	25,000	SFT	\$ 2.50	\$ 62,500.00
4	SURFACE PAINTED HOLD SIGNS	5,500	SFT	\$ 8.50	\$ 46,750.00
		SUBTOTAL			\$ 338,750.00
5	LEGAL, ADMINISTRATION AND ENGINEERING				\$ 35,045.00
		TOTAL ESTIMATED PROJECT COST			\$ 373,795.00

**FEDERAL AVIATION ADMINISTRATION****CIP DATA SHEET**


CAPITAL IMPROVEMENT PROGRAM (CIP)

AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
<b>Airport Name, LOCID, City, State:</b>	Waterloo Regional Airport, ALO, Waterloo, Iowa		
<b>AIP Project Type:</b>	Airfield Pavement Management Program Update		
<b>Local Priority:</b>	1 - Very High	<b>Federal Share:</b>	\$ 90,000
<b>FFY Requested:</b>	2025	<b>State Share:</b>	\$0
<b>Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.</b>		<b>Local Share:</b>	\$ 10,000
		<b>Total Project Cost:</b>	\$ 100,000
<p>The existing airfield management program was last completed to cover entire airfield in 2017. Updates are scheduled to be completed for the on-going pavement rehabilitation projects.</p> <p>The update to the Pavement Management will update airfield pavements that were inventoried in 2017. In addition, this report will review alternative pavement design sections for the rehabilitation/reconstruction of Runway 12-30.</p>			
<b>SPONSOR SIGNATURE BLOCK</b>			
<b>Signature:</b>		<b>Date:</b>	2/12/2021
<b>Printed Name:</b>	Keith D. Kaspari, MPA, C.M.	<b>Title:</b>	Director of Aviation
<b>Phone Number:</b>	319-291-4483	<b>Email:</b>	KEITH.KASPARI@WATERLOO-IA.ORG

**FEDERAL AVIATION ADMINISTRATION****CIP DATA SHEET**

CAPITAL IMPROVEMENT PROGRAM (CIP)  
AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
<b>Airport Name, LOCID, City, State:</b>	Waterloo Regional Airport, ALO, Waterloo, Iowa		
<b>AIP Project Type:</b>	Runway 18-36 and Runway 12-30 Intersection Rehabilitation inside the Runway Safety Area		
<b>Local Priority:</b>	1 - Very High	<b>Federal Share:</b>	\$ 1,031,184
<b>FFY Requested:</b>	2026	<b>State Share:</b>	\$0
<b>Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.</b>		<b>Local Share:</b>	\$ 114,576
		<b>Total Project Cost:</b>	\$ 1,147,760
<p>The intersection of these Runways was last rehabilitated during an overlay project in FY 2009.</p> <p>The most recently completed Pavement Evaluation Study completed in 2017 shows that these pavements were in the mid 60 range. Over the last 4 years, these pavement are showing additional longitudinal and transverse cracking.</p> <p>The project will mill and overlay the existing pavement and repair joints and cracks. The new pavement will be grooved and new paint markings applied.</p> <p>See following page for detailed cost estimate.</p> <div data-bbox="444 991 1044 1554" data-label="Image"></div>			
<b>SPONSOR SIGNATURE BLOCK</b>			
<b>Signature:</b>		<b>Date:</b>	2/12/2021
<b>Printed Name:</b>	Keith D. Kaspari, MPA, C.M.	<b>Title:</b>	Director of Aviation
<b>Phone Number:</b>	319-291-4483	<b>Email:</b>	KEITH.KASPARI@WATERLOO-IA.ORG



## ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST

WATERLOO REGIONAL AIRPORT

AIRFIELD PAVEMENT REHABILITATION

RUNWAY 18-36 &amp; RUNWAY 12-30 INTERSECTION REHABILITATION INSIDE OF RUNWAY SAFETY AREA

2/11/2021

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED
					TOTAL
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 30,800.00	\$ 30,800.00
2	PAVEMENT JOINT AND CRACK SEALANT	48,000	LFT	\$ 4.00	\$ 192,000.00
3	PAVEMENT JOINT AND CRACK REPAIR	2,000	LFT	\$ 15.00	\$ 30,000.00
4	PAVEMENT MILLING	20,000	SYD	\$ 8.00	\$ 160,000.00
5	2-ASPHALT OVERLAY	2,400	TON	\$ 110.00	\$ 264,000.00
6	PAVEMENT GROOVING	180,000	SFT	\$ 1.50	\$ 270,000.00
7	PAVEMENT MARKING	1	LS	\$ 10,000.00	\$ 10,000.00
		SUBTOTAL			\$ 956,800.00
8	LEGAL, ADMINISTRATION AND ENGINEERING				\$ 190,960.00
		TOTAL ESTIMATED PROJECT COST			\$ 1,147,760.00