



City Hall, 215 Sycamore St.
Muscatine, IA 52761-3840
(563) 262-4141
Fax (563) 262-4142

COMMUNITY DEVELOPMENT

**Planning,
Zoning,
Building Safety,
Construction Inspection Services,
Public Health,
Housing Inspections,
Code Enforcement**

MEMORANDUM

To: Mayor and City Council Members

Cc: Gregg Mandsager, City Administrator

From: Steven Boka, Director of Community Development

Date: January 25, 2012

Re: Change Order No. 1 to the Agreement for Engineering Services – Rehabilitate Runway Lighting - February 2, 2012 Agenda

INTRODUCTION: The City of Muscatine continues to utilize Anderson-Bogert Engineers & Surveyors, Inc, for design and consulting services for projects at the Muscatine Municipal Airport. The most recently completed project (except seeding) is the “Rehabilitate Runway Lighting” project that serves the primary runway and the parallel taxiway to that runway. The original Professional Services Agreement with Anderson-Bogert was approved in December of 2010, in the amount of \$39,469.17.

BACKGROUND: The lighting project permitted an evaluation of the existing lighting system, engineering estimate of probable costs, development of a safety & staging plan, lighting specifications and details, electrical vault modifications, detailed specifications and contract documents, coordination with the FAA, and construction oversight. The project resulted in the replacement and installation of over 4 miles of faulty electrical conductors in protected conduit. As most will recall, the appropriation of federal funds for this and other airport projects in the United States was delayed until the spring of 2011. Once funding was approved, the project was updated to include the use of new materials which reduced the overall cost of the project. However, the delays and changes also required the engineer to deviate from the original design and scope of the project. To that end, Anderson-Bogert has submitted Change Order No. #1 to the Agreement with the City in an amount of \$20,480.00, for a total engineering fee \$59,949.00.

RECOMMENDATION/RATIONALE: Change Order No. 1 for the professional services agreement with Anderson-Bogert has been reviewed by the FAA and found to be eligible for federal participation. As a result, the change order will be funded through 95% (\$19,456.00) federal and 5% (\$1,024.00) local share.

It is recommended that the City Council approve Change Order No 1 to the Agreement for Engineering Services – Rehabilitate Runway Lighting Project – with Anderson Bogert Engineers and Surveyors as attached hereto.

BACKUP INFORMATION: Change Order No. 1

"I remember Muscatine for its sunsets. I have never seen any on either side of the ocean that equaled them" — Mark Twain

AGREEMENT CHANGE ORDER NUMBER 1

To Agreement for Engineering Services
Rehabilitate Runway Lighting
Muscatine Municipal Airport

City of Muscatine, Iowa
215 Sycamore Street
Muscatine, IA 52761

Sponsor

2/3/12
Change Order Date

ANDERSON-BOGERT
Engineers & Surveyors, Inc.
4001 River Ridge Drive NE
Cedar Rapids, IA 52402

Consultant

12/16/2010
Date of Agreement

DESCRIPTION OF CHANGES

*INCREASE
In Contract Price*

Engineering Services for analysis of MIRL vs. HIRL, taxiway edge lights/regulator, analysis of value engineered items, revised staging plan, airspacing of staging/storage areas/haul routes, and additional construction observation time. (Also see "Attachment A" Scope of Services)

\$20,480

JUSTIFICATION:

Original scope & ALP included upgrade to HIRL/final design included MIRL; scope increased with addition of taxiway lights/regulator; six value engineered items improved the function or reduced the cost of the improvements; the switch to the cost-saving cable-in-conduit created a need to revise the staging plan; FAA required airspacing of the staging/storage areas and haul routes; construction observation time increased from 160 hours (estimate in agreement) to 226 hours.

The amount of the Agreement will be increased by the sum of: Twenty thousand four hundred eighty dollars (\$20,480)

The agreement total including this and previous Change Orders will be: Fifty nine thousand nine hundred forty nine dollars (\$59,949).

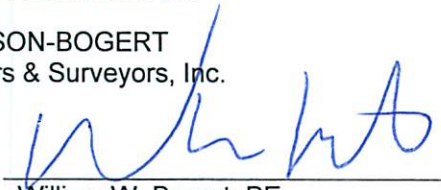
This document will become a supplement to the Agreement and all provisions will apply hereto.

FOR THE CONSULTANT

FOR THE SPONSOR

ANDERSON-BOGERT
Engineers & Surveyors, Inc.

CITY OF MUSCATINE

By: 

William W. Bogert, PE
President

By: _____

Attest: 

Attest: _____

Agreement Change Order Number 1
 To Agreement for Engineering Services
 Rehabilitate Runway Lighting
 Muscatine Municipal Airport
 Attachment "A"

Cost Summary

1	Analysis/research of Medium Intensity Runway Lighting (MIRL) vs. High Intensity Runway Lighting (HIRL) and switch to MIRL (original scope and ALP included upgrade to HIRL).	\$1,200
2	Project scope increased: taxiway edge lights and regulator were added.	\$6,300
3	Analysis of value engineered items: cable-in-conduit, base can plazas, sign transformers, traffic control, #10 control wire, and counterpoise deletion/testing.	\$6,400
4	Change to staging/storage areas/haul routes/traffic control due to change to cable-in-conduit.	\$1,260
5	Airspacing of staging/storage areas and haul routes.	\$1,260
	SUBTOTAL	\$16,420
	Additional Construction Services	\$4,060
	GRAND TOTAL	\$20,480