

**AMENDMENT NO. 24
TO
AGREEMENT FOR ENGINEERING SERVICES
CITY OF BILLINGS AVIATION AND TRANSIT DEPARTMENT**

DATED April 9, 2012

This Amendment No. 24 made and entered into this _____ day of April, 2016 by and between the following:

City of Billings, Montana, a Municipal Corporation, PO Box 1178
Billings, Montana 59103, hereinafter designated the OWNER

and

Morrison-Maierle, Inc., 315 N. 25th Street, Suite 102, Billings, Montana 59102,
a private Montana Corporation, hereinafter designated as the ENGINEER

WITNESSETH:

WHEREAS, the OWNER and the ENGINEER have entered into a contract dated April 9, 2012 for ENGINEER to provide engineering services to OWNER for AIP 052 Pond D Storm Drainage System.

WHEREAS, the OWNER has a need for additional engineering services;

WHEREAS, the ENGINEER represents that he is qualified to perform such services, is in compliance with the Montana Statutes relating to the registration of professional engineers and is willing to furnish such services to the OWNER;

NOW, THEREFORE, in consideration of the terms, conditions, covenants and performance contained herein, or attached and incorporated herein, the parties hereto agree to amend the April 9, 2012 Agreement, corresponding amendments to this Agreement, and all related exhibits as follows:

ARTICLE 1 - SCOPE OF SERVICES. The following items of work listed below are added and amended by the Amendment 23 to Phase I – Design Plans and Specifications, Design Surveys, Design testing and AGIS survey.

For Phase II – Construction Phase, Amendment 24 includes all of the items defined in the original Agreement, plus the following item of work: The ENGINEER shall provide Construction Layout services in accordance with the Master Agreement. Construction Layout includes, but is not limited to, field marking of the following: lines, offsets, pipe inverts, material quantities, preliminary grades, and finished grades, and their associated staking notes. The ENGINEER shall provide the Contractor with a copy of the staking notes in a timely manner.

Engineering fees for providing the scope of work are based on the methods described in Article II of the original agreement.

Scope of Work is amended to include the following Item description:

ITEMS DESCRIPTION

Items for Amendment 24 (Twenty-Four):

1. **Pond D Storm Drainage System Construction.** Provide fulltime construction oversight for the construction of the Pond D Storm Drainage System. This project includes;
 - a. Schedule 1 - Storm Water Pipe construction down Sun Valley drainage. Schedule 1 shall be constructed in 45 calendar days with a full time inspector. This schedule includes 24-inch storm drain construction, directional drilling with HDPE, and street rehabilitation.
 - b. Schedule 2 - Pond D Construction. The Pond D construction includes two detention ponds for the 100-year, 24-hour storm event. This schedule is 60 calendar days with a full time inspector.
 - c. Schedule 3 – North Pipe Construction. The north 48-inch storm pipe includes connecting storm water pipe to the north side manholes of the 2015 Tunnel Boring project. The storm drain connection will carry the storm water from the south side of Runway 10L-28R under the runway to the north side system. This schedule shall be constructed in 45 calendar days with a full time inspector. This schedule may be complete simultaneously with any schedule.
 - d. Schedule 4 – South Pipe Construction. South storm pipe includes connecting storm water pipe to the south side manholes of the 2015 Tunnel Boring project. The connections are 24 to 36-inch RCP. The storm drain connection will carry the storm water from the south side of Runway 10L-28R under the runway to the north side system. This schedule shall be constructed in 30 calendar days with a full time inspector and may not start until Schedules 1, 2 and 3 are complete and accepted.
 - e. Schedule 5 – Open Channel. The trapezoidal open channel is on the southeast and southwest side of Pond D. The open channel is designed to collect surface water on the north side of Runway 10L-28R and carry the storm water to Pond D. The open channel construction shall be constructed in 30 calendar days and may not start until Schedules 1 and 2 are complete. This schedule shall have a full time inspector.
 - f. Schedule 6 – Culvert Installation. The drainage modifications and construction is north and east of the business park. The construction includes removal of the existing 24-inch culvert and installation of a 36-inch RCP with surge area. This schedule shall be constructed in 14 calendar days and have a full time inspector onsite.

Phase I

Phase I work items listed above:

Included in Addendum 23.

Phase II

Phase II work will include providing Construction Administration, Construction Layout, Resident Project Representative (Inspector), and Project Closeout for items identified as Phase I design work.

ARTICLE II - ENGINEERING FEES

The items discussed above are finalized items of work that the Owner, PFC and AIP will fund.

Phase I - Design Specifications
 Items discussed above involve the Phase I were included in Amendment 23 scope of services. Phase I not be included in this Amendment.

Phase II - Construction Phase.

The items discussed above involve the Phase II, Items for Amendment 24 scope of services and will be accomplished at a cost plus fixed fee with a ceiling price not to exceed **\$357,268** as per Method B - Fee Determination outlined below. See Table 2A for engineering budgets.

**COST SUMMARY OF
 Amendment No. 24**

Description		Labor & Expenses	Fixed Fee	Total Phase I	Total Phase II
Amendment No. 24					
<u>AIP 052 Pond D Storm Drainage System</u>					
PHASE 1 - Design - ITEM 1	TABLE 1A	\$0	\$0	\$0	
PHASE II - Construction Admin. - ITEM 1	TABLE 2A	\$314,170	\$43,098		\$357,268
Subtotal Item 1		\$314,170	\$43,098		
Total This Amendment					\$357,268

TABLE 2A

**Amendment No. 24
ENGINEERING BUDGET
PHASE II - Construction Admin. - ITEM 1**

Engineering Services	Total	Labor Rate	Total
PHASE II - Construction Admin. - ITEM 1	Man-hours		
Professional Services AIP 052 Pond D Storm Drainage System	2,667	\$107.75	\$287,319
Total MU Labor			\$287,319
Expenses			
Company Vehicle	\$3,742		
Commuting, Travel	\$0		
Technology Charge	\$13,113		
Vehicle	\$7,173		
Per diem	\$0		
Per diem	\$0		
Equipment Charges	\$2,823		
Professional Charges	\$0		
Printing, Copies	\$0		
Telephone, FAX	\$0		
Photos, Etc	\$0		
Freight, Postage	\$0		
Project Supplies	\$0		
SUBTOTAL	\$26,851		
Total MU Labor			\$287,319
Total Direct Expenses			<u>\$26,851</u>
Total MU Labor & Expenses			\$314,170
Fixed Fee			<u>\$43,098</u>
Total Cost Plus Fixed Fee for Construction Phase			\$357,268

* Figure is rounded

IN WITNESS WHEREOF, the parties hereto have made and executed the Amendment No. 24 this _____ day of April, 2016.

CONSULTANT

Morrison-Maierle, Inc.

BY: Carl J. Anderson

DATE: 4/12/16

OWNER

City of Billings

BY: _____

DATE: _____

ATTEST:

BY: _____
City Clerk

APPROVED AS TO FORM:

BY: _____
City Attorney



Summary of Agreements for Professional Engineering Services					
Description			Labor & Expenses	Fixed Fee	Total
Amendment No. 1 Plunge Pool & Lot Survey					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$55,252	\$6,101	\$61,353
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$44,237	\$5,455	\$49,692
			\$99,489	\$11,556	
Amendment No. 1 Ponds A, B, and C Ponds					
PHASE I - DESIGN - ITEM 2	TABLE 1b		\$23,164	\$3,212	\$26,376
PHASE II - CONSTRUCTION - ITEM 2	TABLE 2b		\$23,984	\$3,259	\$27,243
Subtotal Item 2			\$47,148	\$6,471	
TOTAL Amendment No. 1			\$146,637	\$18,027	\$164,664
Amendment No. 2 Airfield Maintenance Equipment					
PHASE I - DESIGN - ITEM 1	Table 1a		\$28,706	\$3,953	\$32,659
PHASE II - CONSTRUCTION - ITEM 1	Table 2a		\$0	\$0	\$0
Pavement Condition Index Study					
PHASE I - Design - ITEM 1	TABLE 1A		\$47,071	\$6,539	\$53,609
PHASE II - Construction Admin. - ITEM 1	TABLE 2A		\$0	\$0	\$0
TOTAL Amendment No. 2			\$75,777	\$10,492	\$86,268
Amendment No. 3 2012 Miscellaneous Improvements					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$37,713	\$5,229	\$42,942
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$43,240	\$5,750	\$48,990
TOTAL Amendment No. 3			\$80,952	\$10,979	\$91,931
Amendment No. 4 PFC Airport Wheel Loader					
PHASE I - Design - ITEM 1	TABLE 1A		\$3,352	\$417	\$3,769
PHASE II - Construction Admin. - ITEM 1	TABLE 2A		\$0	\$0	\$0
TOTAL Amendment No. 4			\$3,352	\$417	\$3,769
Amendment No. 5 2013 AIP-44 CA					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$69,317	\$9,246	\$78,562
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$415,893	\$53,995	\$469,888
TOTAL Amendment No. 5			\$485,209	\$63,241	\$548,450
Amendment No. 6 Slot 4 - PCC Construction					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$163,094	\$22,453	\$185,547
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$135,941	\$18,061	\$154,003
TOTAL Amendment No. 6			\$299,035	\$40,515	\$339,550
Amendment No. 7 2014 Miscellaneous Improvements					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$24,228	\$3,040	\$27,268
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$28,954	\$3,872	\$32,826
TOTAL Amendment No. 7			\$53,182	\$6,911	\$60,094
Amendment No. 8 Pond D Expand - Outfall Routing Study					
PHASE I - DESIGN/STUDY - ITEM 1	TABLE 1a		\$50,635	\$7,065	\$57,700
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$0	\$0	\$0
TOTAL Amendment No. 8			\$50,635	\$7,065	\$57,700
Amendment No. 9 Employee P-Lot					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$44,581	\$5,980	\$50,561
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$69,893	\$9,384	\$79,277
TOTAL Amendment No. 9			\$114,474	\$15,364	\$129,838
Amendment No. 10 AIP 046-2014 Apron Construction					
PHASE I - DESIGN - ITEM 1	TABLE 1a		\$83,709	\$11,868	\$95,577
PHASE II - CONSTRUCTION - ITEM 1	TABLE 2a		\$85,259	\$11,442	\$96,701
TOTAL Amendment No. 10			\$168,968	\$23,310	\$192,278

Amendment No. 11	West Transfer Parking Lot & Terminal Circle Road			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$49,919	\$6,573	\$56,492
PHASE II - Construction Admin. - ITEM 1	TABLE 2A	\$65,110	\$8,622	\$73,732
TOTAL Amendment No. 11		\$115,029	\$15,195	\$130,224
Amendment No. 12	AIP 048 - Land, Runway 10R EA			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$0	\$0	\$0
PHASE II - EA - ITEM 1	TABLE 2A	\$131,204	\$17,782	\$148,986
TOTAL Amendment No. 12		\$131,204	\$17,782	\$148,986
Amendment No. 13	Wetland, Survey & Flood Plane Analysis			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$38,869	\$5,378	\$44,247
PHASE II - EA - ITEM 1	TABLE 2A	\$0	\$0	\$0
TOTAL Amendment No. 13		\$38,869	\$5,378	\$44,247
Amendment No. 14	Lights-Fence Transfer Lot			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$13,774	\$1,876	\$15,650
PHASE II - EA - ITEM 1	TABLE 2A	\$17,749	\$2,339	\$20,088
TOTAL Amendment No. 14		\$31,523	\$4,215	\$35,738
Amendment No. 15	Ponds A, B, C Fence			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$12,820	\$1,731	\$14,551
PHASE II - EA - ITEM 1	TABLE 2A	\$10,818	\$1,404	\$12,222
TOTAL Amendment No. 15		\$23,638	\$3,135	\$26,773
Amendment No. 16	2015 Parking Lot Improvements			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$33,173	\$4,591	\$37,764
PHASE II - EA - ITEM 1	TABLE 2A	\$64,600	\$8,683	\$73,283
TOTAL Amendment No. 16		\$97,773	\$13,274	\$111,047
Amendment No. 17	Pond D Permitting for Storm Drainage Improvements			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$27,579	\$3,948	\$31,527
PHASE II - EA - ITEM 1	TABLE 2A	\$0	\$0	\$0
TOTAL Amendment No. 17		\$27,579	\$3,948	\$31,527
Amendment No. 18	AIP 049-2015 Ramp Construction			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$82,152	\$11,626	\$93,778
PHASE II - EA - ITEM 1	TABLE 2A	\$85,694	\$11,605	\$97,299
TOTAL Amendment No. 18		\$167,846	\$23,231	\$191,077
Amendment No. 19	Pavement Condition Index			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$53,018	\$7,392	\$60,410
PHASE II - EA - ITEM 1	TABLE 2A	\$0	\$0	\$0
TOTAL Amendment No. 19		\$53,018	\$7,392	\$60,410
Amendment No. 20	AIP 050-2015 Storm Drain Tunneling			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$105,414	\$14,930	\$120,344
PHASE II - EA - ITEM 1	TABLE 2A	\$60,695	\$8,260	\$68,955
TOTAL Amendment No. 20		\$166,109	\$23,190	\$189,299
Amendment No. 21	AIP 050-2015 Taxilane Construction			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$41,816	\$5,908	\$47,724
PHASE II - EA - ITEM 1	TABLE 2A	\$38,545	\$5,302	\$43,847
TOTAL Amendment No. 21		\$80,361	\$11,210	\$91,571
Amendment No. 22	AIP 050-2015 Storm Drain Tunneling CA			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$0	\$0	\$0
PHASE II - EA - ITEM 1	TABLE 2A	\$32,116	\$4,369	\$36,485
TOTAL Amendment No. 22		\$32,116	\$4,369	\$36,485
Amendment No. 23	AIP 050-2015 Pond D Storm Sytem			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$257,789	\$36,416	\$294,205
PHASE II - EA - ITEM 1	TABLE 2A	\$0	\$0	\$0
TOTAL Amendment No. 23		\$257,789	\$36,416	\$294,205
Amendment No. 24	AIP 052-2016 Pond D Storm Sytem			
PHASE 1 - Design - ITEM 1	TABLE 1A	\$0	\$0	\$0
PHASE II - EA - ITEM 1	TABLE 2A	\$314,170	\$43,098	\$357,268
TOTAL Amendment No. 24		\$314,170	\$43,098	\$357,268
Sum Total All Amendments				\$3,423,399