

Department of Transportation  
Division of Secretariat  
Office of Air, Rail & Transit  
700 East Broadway Avenue  
Pierre, South Dakota 57501-2586  
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**SOUTH DAKOTA AERONAUTICS COMMISSION  
TELECONFERENCE MEETING  
AGENDA  
AUGUST 3, 2016 1:00 PM  
Pierre, SD**

**To participate via phone, please dial 1-866-410-8397 enter code 1289182255 to join the meeting.**

**Call to Order Skip Vanderhule, Chairman**

Discussion & Consideration of Conflict of Interest 1  
Approve the minutes of meeting on June 28, 2016 2

**Karla Engle, Office Legal Counsel**

Distribution of proposed procedure for handling conflicts of interest

**Darin Bergquist, Secretary**

Secretary's Report 3

**Jon Becker, Office of Aeronautics**

Consideration of state funding for multiple FAA funded projects 4

**Jennifer Boehm, Office of Aeronautics**

Consideration of amending state funds for two existing projects 5

**Adjourn**

Next Aeronautics Commission Meeting will be August 23, 2016 in Brookings, SD. More information to follow.

Meeting agendas are now posted online at Boards and Commissions site  
<http://boardsandcommissions.sd.gov/>

Notice is further given to individuals with disabilities that this commission meeting is being held in a physically accessible place. Any individuals with disabilities who will require a reasonable accommodation in order to participate in the commission meeting should submit a request to the department's ADA Coordinator at 605-773-3540 or 1-800-877-1113 (Telecommunication Relay Services for the Deaf). Please request the accommodations no later than 2 business days prior to the meeting in order to ensure accommodations are available.

**South Dakota Aeronautics Commission  
Meeting Minutes  
Becker-Hansen Building – Commission Room  
Pierre, South Dakota  
June 28, 2016 @ 1:00 PM**

**MEMBERS:** Skip VanDerhule, Chairman  
Dave Luers  
Arnie Hauge  
Eric Odenbach  
Chris Funk, via phone

**STAFF:** Bruce Lindholm, Colton Stahl, Tom Koch, Tessa Wenner, Bonnie Olson, Karla Engle, Jennifer Boehm, and Darin Bergquist

**OTHERS:** Steve Hamilton

**AGENDA ITEMS:**

- Call to Order
- Approve Minutes from May 24, 2016 meeting
- Secretary's Report
- Aeronautics Commission Report for 2015
- State grant amendments
- Belle Fourche funding request
- Financial Assistance Agreements
- Discussion of laws relating to boards, authorities and commissions

Chairman VanDerhule called the regular meeting of the South Dakota Aeronautics Commission (the "Commission") to order at 1:05 PM. A roll call was taken and a quorum was determined.

\*\*\*\*\*

A motion was made by Hauge, second by Odenbach, to approve the May 24, 2016, Aeronautics Commission meeting minutes. A roll call was taken and all voted aye. Motion carried.

\*\*\*\*\*

**Secretary's Report**

There was no information to share from the Secretary's office.

**Aeronautics Commission Report for 2015 – Bruce Lindholm, Office of Aeronautics**

Bruce Lindholm presented the Commission with the Aeronautics Commission Report for 2015. The Department of Transportation (the "Department") requested Commission approval for submission of the report to the Governor's office.

Motion by Odenbach, second by Luers to approve submittal of the Aeronautics Commission Report for 2015 to the Governor's office. A roll call vote was taken and all voted aye. Motion carried.

**State grant amendments – Jennifer Boehm, Office of Aeronautics**

Jennifer Boehm presented the Commission with information about increased grant amounts for the following three airport projects:

**Sioux Falls Regional Airport AIP# 3-46-0050-41-2010** –Construct Westside General Aviation Apron; Design for Runway Intersection Reconstruction (Phase I, Engineering Report); Environmental Assessment for Runway 3/21 Runway Safety Area (RSA) Improvements; Update Airport Master Plan (Land Inventory); Rehabilitate Runway Signs, Improve ARFF Building Communications.

The federal grant amount was increased to reflect final as-built measured quantities for construction. The state share must increase accordingly.

	Federal (95%)	State (3%)
Final project	\$2,984,409.89	\$94,244.52
Original grant	\$2,931,999.00	\$92,589.44
Change	\$52,410.89	\$1,655.08

The Department recommends approval of a state grant increase in the amount of \$1,655.08.

**Sioux Falls Regional Airport AIP# 3-46-0050-47-2013** – Construct Phase 2 of Runway 3 Safety Area Correction (Mitigation of Golf Course).

The federal grant amount was increased by \$615,546.00 to cover expected final costs due to as-built measured quantities for construction. The state share must increase accordingly.

	Federal (90%)	State (5%)
Final project	\$4,719,186.00	\$262,177.00
Original grant	\$4,103,640.00	\$227,980.00
Change	\$615,546.00	\$34,197.00

The Department recommends approval of a state grant increase in the amount of \$34,197.00.

**Lawrence County/Black Hills Airport AIP# 3-46-0065-17-2010** – Construct Parallel Taxiway (Phase 2-earth work and obstruction removal).

The federal grant amount was increased to reflect final as-built measured quantities for construction. The state share must increase accordingly.

	Federal (95%)	State (3%)
Final project	\$1,843,482.52	\$58,215.24
Original grant	\$1,832,782.00	\$57,877.33
Change	\$10,700.52	\$337.91

The Department recommends approval of a state grant increase in the amount of \$337.91.

Motion by Hauge, second by Luers, to approve all three requests as follows: (1) a state grant increase in the amount of \$1,655.08 for Sioux Falls Regional Airport AIP# 3-46-0050-41-2010; (2) a state grant increase in the amount of \$34,197.00 for Sioux Falls Regional Airport AIP# 3-46-0050-47-2013; and (3) a state grant increase in the amount of \$337.91 for Lawrence County/Black Hills Airport AIP# 3-46-0065-17-2010.

A roll call was taken and all voted aye. Motion carried.

**Belle Fourche funding request – Colton Stahl, Office of Aeronautics**

Colton Stahl explained that the city of Belle Fourche, South Dakota, had submitted a letter summarizing its work on the aviation fuel system and the recent change of eligibility of its fuel tanks for AIP funding. The city requested that the Commission authorize funding 50% of the total cost of removing the existing tank system, up to a maximum limiting amount of \$40,000. The total cost of the removal work is estimated at \$80,000.

Motion by Luers, second by Odenbach, to approve funding from the State Aeronautics Fund in the amount of \$40,000 or 50% of the total actual cost to remove the existing fuel tank system, whichever is less.

The discussion and vote on this item was tabled until later in the meeting.

**Financial Assistance Agreements:**

Colton Stahl explained the Department is requesting approval for funding from the State Aeronautics Fund for the following Airport Improvement Program (AIP) projects:

**Aberdeen 3-46-0001-036-2016**

Design and Construct runway 17/35 decoupling; shift runway and associated infrastructure

Federal Share	\$ 6,075,000.00
State Share	\$ 337,500.00
Local Share	\$ 337,500.00

Total \$ 6,750,000.00

The Department recommends approval of state assistance in the amount of \$337,500.00.

**Highmore 3-46-0019-008-2016**

Construct parallel taxiway extension

Federal Share	\$ 748,700.00
State Share	\$ 41,594.48
Local Share	\$ 41,595.17

Total \$ 831,889.65

The Department recommends approval of state assistance in the amount of \$41,595.00.

**Hot Springs 3-46-0020-012-2016**

Construct parallel taxiway

Federal Share	\$ 994,173.80
State Share	\$ 55,231.88
Local Share	\$ 55,231.88

Total \$ 1,104,637.56

The Department recommends approval of state assistance in the amount of \$55,232.00.

**Redfield 3-46-0049-009-2016**

Land appraisal, legal survey, land acquisition, wildlife hazard site visit, and wildlife hazard management plan.

Federal Share	\$ 522,000.00
State Share	\$ 29,000.00
Local Share	\$ 29,000.00

Total \$ 580,000.00

The Department recommends approval of state assistance in the amount of \$29,000.00.

Motion by Hauge, second by Luers, to approve funding from the State Aeronautics Fund for the following AIP projects: (1) state assistance in the amount of \$337,500.00 for Aberdeen 3-46-0001-036-2016; (2) state assistance in the amount of \$41,595.00 for Highmore 3-46-0019-008-2016; (3) state assistance in the amount of \$55,232.00 for Hot Springs 3-46-0020-012-2016; and (4) state assistance in the amount of \$29,000.00 for Redfield 3-46-0049-009-2016. A roll call vote was taken and all voted aye. Motion carried.

The Commission resumed discussion of the city of Belle Fourche's request for funding assistance for the removal of the existing fuel tax system.

Motion by Luers, second by Funk, to amend the original motion to limit funding from the State Aeronautics Fund to 20% of the total actual project cost, or \$16,000, whichever is less. A roll call vote was taken and all voted aye. Motion carried.

The Commission members then voted on the original motion as amended. A roll call vote was taken. Four voted aye, one voted nay (Odenbach). Motion carried.

Chairman Vanderhule discussed holding the August Aeronautics Commission Meeting in Brookings, South Dakota, at the Brookings Municipal Airport.

**Discussion of laws relating to boards, authorities and commissions - Karla Engle, DOT Legal Counsel**

Karla Engle presented information on House Bill 1214, which was passed during the 2016 Legislative Session. The law goes into effect July 1, 2016.

**Adjourn:**

Motion to adjourn by Luers, second by Hauge. All voted aye. Motion carried.  
Meeting adjourned at 3:15 PM.

Next meeting to be held July 26, 2016.

## **Procedure for Conflict of Interest Disclosure**

At the beginning of each commission meeting, the chair will deliver the following instructions:

1. Now is the time for the commission to consider any written or verbal disclosures of conflicts of interest by current and former commission members.
2. If any member of the commission has completed a written disclosure of a conflict of interest, the commission will consider the disclosure at this time.
3. If any commission member wishes to verbally disclose an interest in a contract (as defined in SDCL 3-23-1), a "direct benefit" from a contract (as defined in SDCL 3-23-1 and 3-23-2), or any other conflict with any matter on today's meeting agenda, please identify the contract, transaction, or other matter in which you have the conflict of interest and generally describe the nature of the conflict.
4. Also, if during the meeting you become aware that you have a conflict of interest with any proposed contract or transaction, please notify the chair of the conflict and generally describe the nature of the conflict.
5. If you disclose a conflict of interest, the commission must vote on whether "the matter underlying the conflict is fair, reasonable, and not contrary to the public interest." You may not participate in the commission's discussion and vote on the conflict.
6. If the commission decides the underlying conflict is fair, reasonable and not contrary to the public interest, you may not participate in any commission discussion or commission action on that matter.
7. If the commission does not find the underlying conflict to be fair, reasonable and consistent with the public interest, the parties (which may include the Department) may not lawfully enter into the proposed contract or proceed with the proposed transaction which gives rise to the conflict of interest.
8. The secretary must record in the minutes of the meeting:
  - (a) the name of any commission member who has disclosed a conflict of interest,
  - (b) a description of the proposed contract or transaction in which the member has the conflict,
  - (c) the member's description of the nature of the conflict, and
  - (d) the commission's vote on the question of whether the matter underlying the conflict, is fair, reasonable, and not contrary to the public interest



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TO: South Dakota Aeronautics Commission  
 FROM: Jon Becker  
 Office of Air, Rail, and Transit  
 DATE: July 22, 2016  
 SUBJECT: Financial Assistance Agreements

The Office of Aeronautics is requesting funding from the State Aeronautics Fund for the AIP projects below.

**Belle Fourche 3-46-0006-011-2016**

Design and Construct new fuel system with card reader, pumps, 20'x30' concrete pad, system piping and electrical.

Federal Share	\$ 381,774.50
State Share	\$ 21,209.70
Local Share	\$ 21,209.69
Total	\$ 424,193.89

**The Department recommends approval of state assistance in the amount of \$21,209.70.**

**Canton 3-46-0008-006-2016**

Design wildlife fence

Federal Share	\$ 82,563.00
State Share	\$ 4,586.00
Local Share	\$ 4,588.00
Total	\$ 91,737.00

**The Department recommends approval of state assistance in the amount of \$4,586.00.**

**Clark County 3-46-0009-009-2016**

Master plan update with GIS survey

Federal Share	\$ 153,000.00
State Share	\$ 8,500.00
Local Share	\$ 8,500.00
Total	\$ 170,000.00

**The Department recommends approval of state assistance in the amount of \$8,500.00.**

**Gregory 3-46-0018-013-2016**

Design of apron expansion, phase 2; Geotechnical exploration.

Federal Share	\$ 27,000.00
State Share	\$ 1,500.00
Local Share	\$ 1,500.00
Total	\$ 30,000.00

**The Department recommends approval of state assistance in the amount of \$1,500.00.**

**Lincoln County 3-46-0078-013-2016**

Reconstruct taxiway.

Federal Share	\$ 1,006,299.45
State Share	\$ 55,905.42
Local Share	\$ 55,905.42
Total	\$ 1,118,110.49

**The Department recommends approval of state assistance in the amount of \$55,905.42.**

**Martin 3-46-0030-011-2016**

Design for wildlife fence.

Federal Share	\$ 46,000.00
State Share	\$ 2,555.56
Local Share	\$ 2,555.56
Total	\$ 51,111.11

**The Department recommends approval of state assistance in the amount of \$2,555.56.**

**Mobridge 3-46-0038-011-2016**

Design runway 12/30 and connector taxiway reconstruction, turnaround expansion and replacement of edge lighting and PAPIs. Snow removal equipment blade reimbursement.

Federal Share	\$ 145,560.00
State Share	\$ 8,087.00
Local Share	\$ 8,088.00
Total	\$ 161,735.00

**The Department recommends approval of state assistance in the amount of \$8,087.00.**

**Onida 3-46-0041-009-2016**

Design and construction of hangar taxilane improvements.

Federal Share	\$ 306,000.00
State Share	\$ 17,000.00
Local Share	\$ 17,000.00
Total	\$ 340,000.00

**The Department recommends approval of state assistance in the amount of \$17,000.00.**

**Pine Ridge 3-46-0045-014-2016**

Apron expansion phase 1; geotechnical testing.

Federal Share	\$ 592,000.00
State Share	\$ 32,888.89
Local Share	\$ 32,888.89
Total	\$ 657,777.78

**The Department recommends approval of state assistance in the amount of \$32,888.89.**

**Platte 3-46-0066-009-2016**

Construction of runway 14/32; install MIRL and PAPIs.

Federal Share	\$ 1,926,000.00
State Share	\$ 107,000.00
Local Share	\$ 107,000.00
Total	\$ 2,140,000.00

**The Department recommends approval of state assistance in the amount of \$107,000.00.**

**Redfield 3-46-0049-010-2016**

Master plan update with GIS survey; RPZ analysis.

Federal Share	\$ 135,000.00
State Share	\$ 7,500.00
Local Share	\$ 7,500.00
Total	\$ 150,000.00

**The Department recommends approval of state assistance in the amount of \$7,500.00.**

**Sturgis 3-46-0054-013-2016**

Design and construct 250' x 350' concrete apron joint repair.

Federal Share	\$ 122,992.79
State Share	\$ 6,832.93
Local Share	\$ 6,832.93
Total	\$ 136,658.65

**The Department recommends approval of state assistance in the amount of \$6,832.93.**

**Wagner 3-46-0057-012-2016**

Land acquisition for RPZ protection, reconstruction of turf crosswind runway; reconstruction of hangar taxilane.

Federal Share	\$ 427,500.00
State Share	\$ 23,750.00
Local Share	\$ 23,750.00
Total	\$ 475,000.00

**The Department recommends approval of state assistance in the amount of \$23,750.00.**

**Winner 3-46-0061-014-2016**

Geotechnical exploration; design for lower apron expansion – phase 1.

Federal Share	\$ 36,900.00
State Share	\$ 2,050.00
Local Share	\$ 2,050.00
Total	\$ 41,000.00

**The Department recommends approval of state assistance in the amount of \$2,050.00.**

**Belle Fourche Municipal Airport  
Capital Improvement Plan 2016-2018**

**PROJECT TO BE VALIDATED**

YEAR	PROJECT DESCRIPTION	CONSTRUCTION COST	ENGINEERING COST	TOTAL ESTIMATED COST	FEDERAL SHARE	STATE SHARE	LOCAL SHARE
<b>CAPITAL IMPROVEMENT PLAN</b>							
2016	Design and Install New Fuel System w/Card Reader	\$ 350,000.00	\$ 83,000.00	\$ 433,000.00	\$ 389,700.00	\$ 21,650.00	\$ 21,650.00
	<b>TOTAL</b>			\$ 433,000.00	\$ 389,700.00	\$ 21,650.00	\$ 21,650.00

2017	CATEX and Design for new Hangar Taxiway		\$ 20,000.00	\$ 20,000.00	\$ 18,000.00	\$ 1,000.00	\$ 1,000.00
	<b>TOTAL</b>			\$ 20,000.00	\$ 18,000.00	\$ 1,000.00	\$ 1,000.00

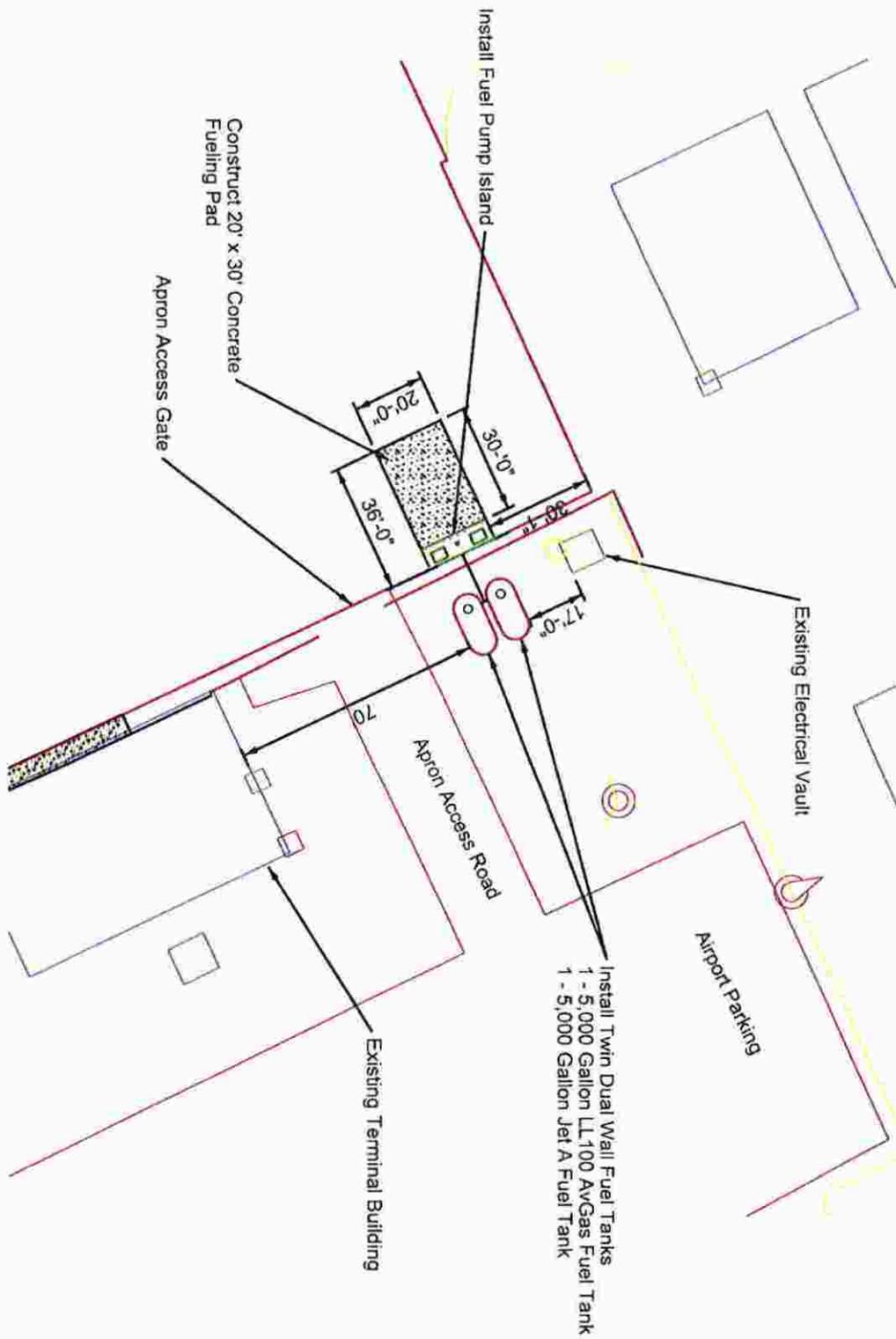
2018	Construct New Hangar Taxiway	\$ 225,000.00	\$ 25,000.00	\$ 250,000.00	\$ 225,000.00	\$ 12,500.00	\$ 12,500.00
	<b>TOTAL</b>			\$ 250,000.00	\$ 225,000.00	\$ 12,500.00	\$ 12,500.00

2019-2023	NPIAS			\$300,000.00	270,000.00	12,000.00	18,000.00
	Acquire existing easement areas in Fee Simple			\$500,000.00	450,000.00	20,000.00	30,000.00
	Construct Parallel Taxiway (Exit txy to SE End)			\$450,000.00	405,000.00	18,000.00	27,000.00
	<b>TOTAL</b>			\$1,250,000.00	\$1,125,000.00	\$50,000.00	\$75,000.00

AVAILABLE G.A. ENTITLEMENT CARRYOVER		\$341,799.00
PROJECTED 2016 G.A. ENTITLEMENTS		\$150,000.00
<b>TOTAL G.A. ENTITLEMENTS FOR 2016</b>		<b>\$491,799.00</b>

**Belle Fourch Airport- Fuel System Replacement Opinion of Probable Cost**  
**6/13/2016**

BID ITEM	ITEM DESCRIPTION	UNIT	BID QUANTITY	UNIT COST	EXTENDED COST
1	Mobilization	Lump Sum	1	\$ 20,000.00	\$ 20,000.00
2	Remove Asphalt Concrete	SqYd	80	\$ 40.00	\$ 3,200.00
3	Subbase Preparation	SqYd	80	\$ 10.00	\$ 800.00
4	Remove & Reset Chain Link Fence	Ft	20.0	\$ 45.00	\$ 900.00
5	6" Reinforced Concrete Fuel Island	SqYd	13.3	\$ 120.00	\$ 1,599.60
6	8" Reinforced Concrete Fuel Pad	SqYd	66.7	\$ 100.00	\$ 6,670.00
7	Seeding	Acre	0.1	\$ 1,500.00	\$ 150.00
8	Topsoiling	CuYd	12	\$ 20.00	\$ 240.00
9	Fiber Mulching	Acre	0.1	\$ 2,000.00	\$ 200.00
10	9" Erosion Control Wattles	Ft	120	\$ 6.50	\$ 780.00
11	AvGas and Jet A Fueling System Complete	Lump Sum	1.0	\$ 313,000.00	\$ 313,000.00
12	Safety Plan	Lump Sum	1	\$ 2,500.00	\$ 2,500.00
<b>Total Participating Cost</b>					<b>\$ 350,039.60</b>
<b>Non-Participating Items</b>					
NP1	Remove Fueling System	Lump Sum	1.0	\$ 35,000.00	\$ 35,000.00
NP2	Remove Contaminated Material	CuYd	150.0	\$ 5,000.00	\$ 5,000.00
<b>Total Non- Participating Cost</b>					<b>\$ 40,000.00</b>
<b>Total Construction Cost</b>					<b>\$ 390,039.60</b>



SHEET DESCRIPTION: Proposed Layout  
 PROJECT NAME: Belle Fourche Airport Fuel System

REVISION	DATE
	10/20/08

DESIGNED BY: JTH  
 DRAWN BY: JTH

Belle Fourche Municipal Airport

Belle Fourche, South Dakota

Grant Number 3-46-0006-011-2016

### 2016 Revenue Generating Fuel System Project

The City of Belle Fourche is requesting consideration for a project to complete a revenue generating fueling system with credit card reader.

The new system would include two 5,000 gallon below ground tanks (see Sketch). Above ground would be a fueling island with a dispenser pump for each fuel type and an automatic card reader.

The fuel pump island would be located to the edge of the existing apron to allow for a 20'x30' concrete fueling pad to be constructed where the existing fuel pump island is located.

The new fuel system will allow the airport manager greater flexibility to provide LL100 Fuel and Jet A Fuel to the airport users, both fixed base and transient. The airport users would have the ability of fueling and paying using the automated credit card reader 24 hours per day/7 days per year.

A CATEX and Business Plan was submitted to the Bismarck ADO on November 11, 2015. The approved CATEX was received on November 16, 2015.

To date, no AIP funds have been spent on the project. It is estimated that to complete the new fuel system, approximately \$389,700 in AIP funds will be needed.

Projected Belle Fourche Federal Entitlements will be in the amount of \$491,799.00 in FY2016 and are estimated as adequate for the 2016 project.

All runway, apron and exit taxiway pavement needs have been met for a three year period at the Belle Fourche Municipal Airport.

Future needs do exist for a new Hangar Taxiway in accordance with the active ALP. There will be two larger hangars built within the footprint of the existing hangar layout within the next year or two. Design and planning of the new taxiway is planned for 2017 with construction to be scheduled for 2018.

Canton Municipal Airport  
 Canton, South Dakota  
 FAA AIP 3-46-0007-006-2016  
 Canton Municipal Airport  
 Summary of Project Costs

Description	Project Costs
Administration	\$ 2,000.00
Wetland Credit Purchase	\$ 2,000.00
Design Services for Wildlife Fence	\$ 84,963.66
Closeout	\$ 2,773.03
<b>Total Estimated Project Costs</b>	<b>\$ 91,736.69</b>

Federal Funding = \$ 82,563.00  
 State Share = \$ 4,586.00  
 Sponsor Share = \$ 4,587.69

## **Canton Municipal Airport – Canton, SD**

### **Design Wildlife Fence:**

The proposed project is to design a new wildlife fence around the perimeter of the airport entirely on airport property. The new fence will keep deer and other animals off of airport property. The sponsor has recently conducted a wildlife site visit and has prepared a wildlife hazard management plan to further justify the project. The fence alignment will be designed to provide minimal impacts to wetlands and minimal changes to existing ground features. The fence will be located so that all heavily treed areas will be located outside of the fence. A number of gates will be installed in the fence to provide access to maintenance equipment and also to provide an escape route for any large animals that could get trapped inside the fence. The fence elevations will be determined during the design process and will be verified to clear all associated airfield surfaces. A minimal impact to wetlands is expected and wetlands credits will be purchased from Tetonka Wetland Bank. This project shall be a single phase with an estimated cost of approximately \$92,000. This is not an LOI project.



PRELIMINARY  
NOT FOR  
CONSTRUCTION



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## **Project Narrative**

The Clark County Airport's existing Airport Layout Plan is from 1995 and needs to be updated. There has never been a Master Plan completed and for future development at the airport, it would benefit the Clark County Airport to complete a full planning effort. In order to plan for efficient development of the airport, a new Master Plan and Airport Plan Layout is required. The ALP will provide the owner and user a depiction of the current boundaries and proposed additions for airport purposes. It will also show location and nature of existing and proposed airport facilities, structures, non-aviation areas, and possible improvements.

**Project Cost Breakdown**

GREGORY MUNICIPAL AIRPORT

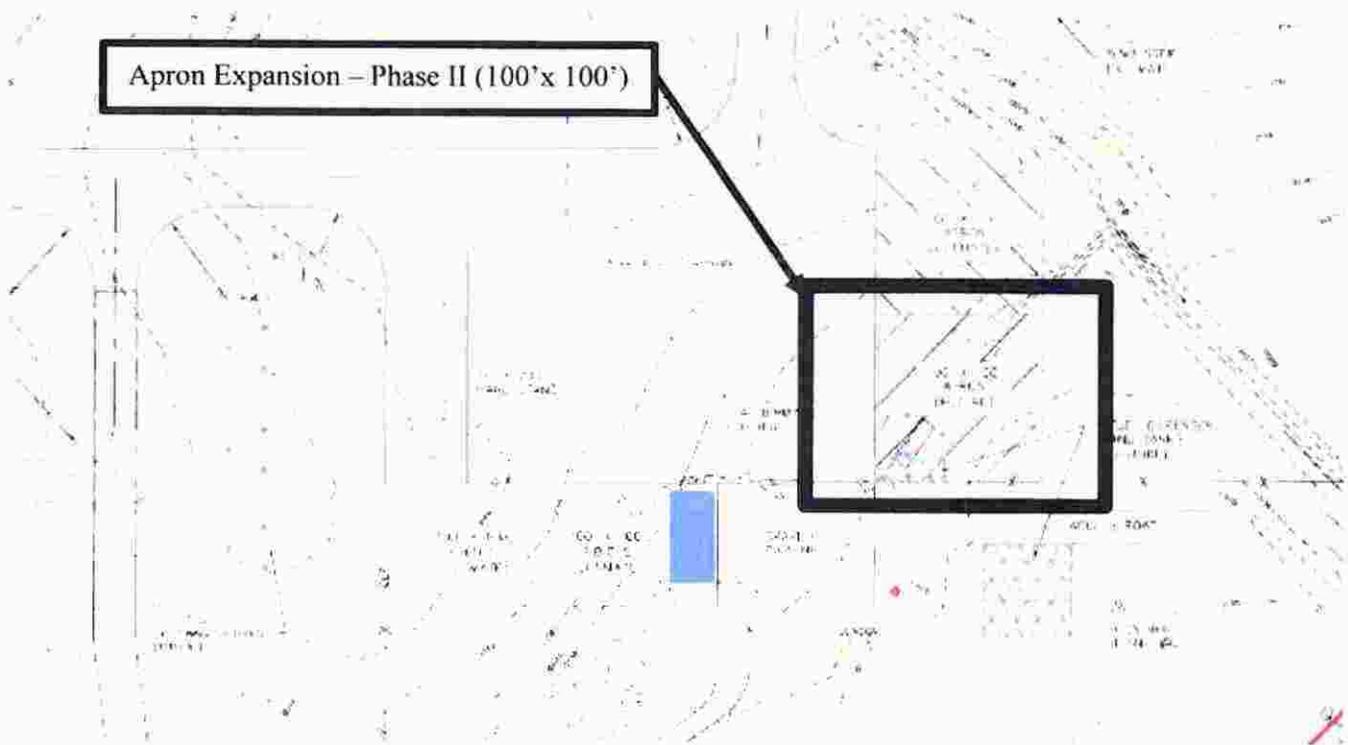
GEOTECHNICAL EXPLORATION AND DESIGN OF APRON EXPANSION – PHASE II

DESIGN OF APRON EXPANSION – PHASE II	\$26,960.08
SOIL BORINGS	\$ 2,765.00
ADMINISTRATIVE COSTS	\$ 274.92
<hr/>	
TOTAL PROJECT COST	\$30,000.00

**Project Sketch**

**Gregory Municipal Airport**

**Gregory, SD**



**Project Description:**

Geotechnical Exploration and Design of Apron Expansion – Phase II (100' x 100')

## **Project Narrative**

### **Geotechnical Exploration**

A geotechnical exploration of the Apron Expansion is required for the pavement design.

### **Apron Expansion – Phase II (100' x 100')**

The purpose is to provide expanded apron area for users of the Gregory Airport. Hunting in the area is a huge business, which can be seen by the number of hunting operations in the area. Many of the hunters coming in, fly to this area and need additional apron area and tie downs for parking aircraft. Currently the airport has fuel available for public use. However, the fuel system is in a location that hinders access to the apron. When aircrafts park to fill with fuel in the southern corner of the apron, the emergency access from the parking lot through the gate is blocked. In addition, after aircraft use the fuel system there is no easy way to exit the fueling location. They must generally be backed out, especially when another aircraft is tied down near the dispensers.

The need for this action is a larger apron and additional tie downs. Additionally, the fueling station is in a poor location, blocking the emergency entrance when aircraft are refueling. It is anticipated based on input from current users that there will be similar numbers of gallons of 100LL fuel and Jet A fuel consumed annually. This will largely be by the spray service based at the airport.

Phase I is under contract for construction to be completed in June, 2016. The fuel system is being rotated and the underground storage tanks are being relocated to allow for the construction of Phase II.

## **Lincoln County – Marv Skie Airport, Tea, South Dakota**

### **Justification for the 2016 Taxiway Replacement Project**

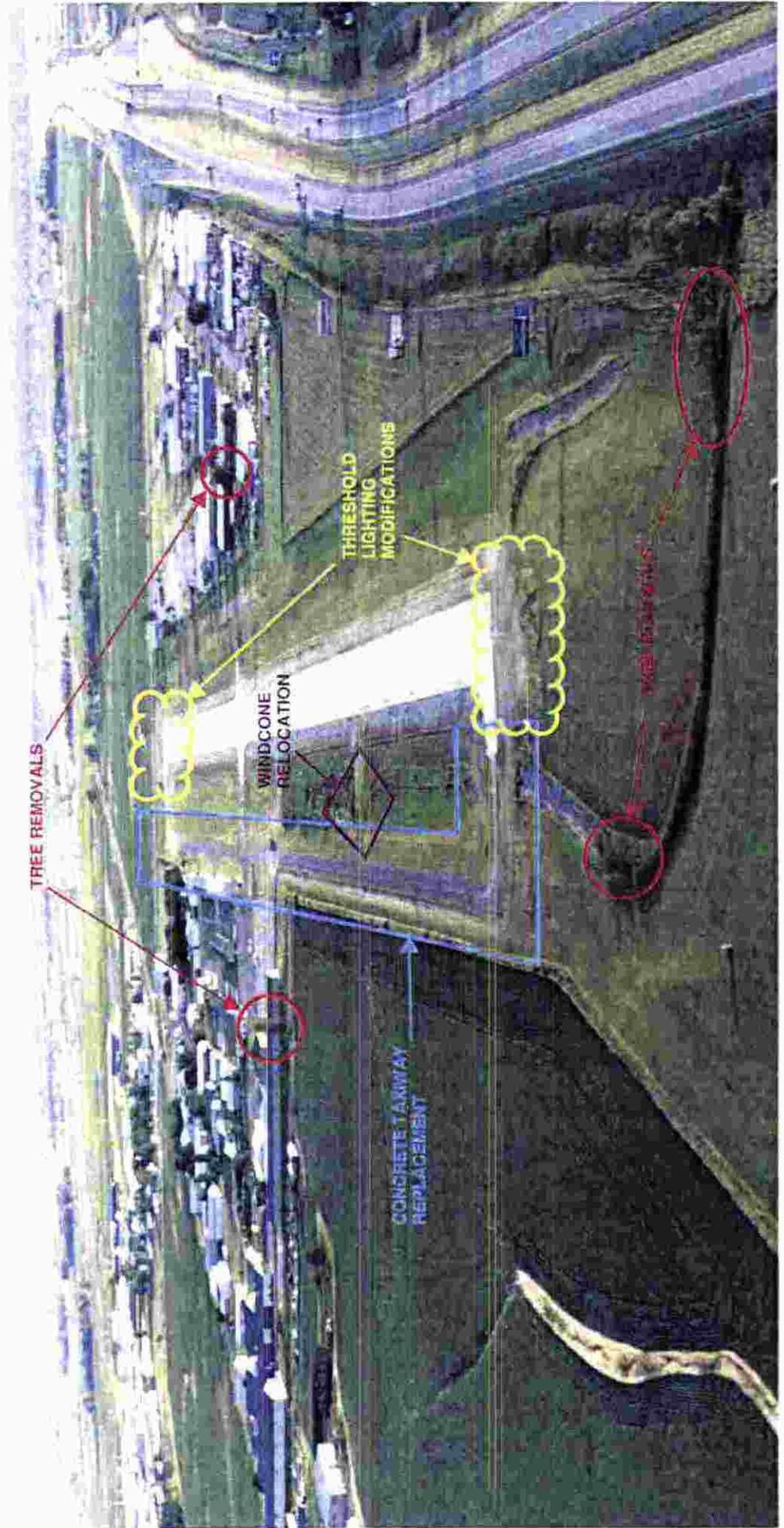
The purpose of the 2016 Taxiway Replacement Project is to replace the existing parallel taxiway asphalt pavement that is 27 years old and nearing the end of its useful life. The existing taxiway consists mainly of 3-inches of asphalt pavement on approximately 10-inches of base course. The pavement was installed in 1989 and has a PCI rating of 55 as of 2009. The existing pavement is showing signs of excessive transverse cracking that have been sealed several times. These issues are causing safety concerns with air operations as well as snow removal equipment.

The 25-ft x 365-ft taxiway will be reconstructed with 6-inch concrete pavement including subdrains to improve safety and decrease maintenance. Also included in this process will be obstruction lighting installation, threshold lighting modifications, tree and billboard removals, and relocation of existing windcone. These Part 77 obstructions have been identified in the recently updated ALP. With the 2011 Runway Project completed and a newly revised ALP submitted in 2014 the Taxiway work was identified as the next order of priority for 2016.

The airport now serves small airplanes in the designated airport reference codes A-1 and B-1. There are just under 100 based aircraft confirmed at this airport. This airport has been designated as one of the largest General Aviation airports in the State of South Dakota. The intent of the upgrade will be to continue to serve only small airplanes and improve safety with an instrument approach.

# LINCOLN COUNTY TAXIWAY REPLACEMENT PROJECT

## EXHIBIT A



## A. EXECUTIVE SUMMARY

The ALP update for the Lincoln county airport was used to come up with a logical development of the airport for the 20 year planning time horizon. After looking at many options for the development of the airport it was determined that for the most part there will be no drastic changes to the airport and the aircraft that it serves. Due to the location of the airport land restriction the planning projects for the airport include rebuilding existing infrastructure, development of non-precision approaches, hangar buildings, maintenance building and equipment, and upgrades of existing equipment or buildings.

Date	Project Name	Project Description	Triggering Event	Funding			
				FAA	STATE	LOCAL	TOTAL
2013	Design taxiway/apron	Design new parallel taxiway and apron with lighting	Taxiway and apron surface condition	\$135,000	\$7,500	\$7,500	\$150,000
2014	Approach Preparation	Obstruction lighting, Runway lighting, Tree removal, Easement Acquisition, Land Acquisition, Billboard Removal	FAA ALP Approval	\$150,000	\$7,500	\$7,500	\$165,000
2015	Phase I Taxiway/Apron Construction	New parallel taxiway and apron with lighting	Taxiway and apron surface condition	\$405,000	\$47,500	\$47,500	\$450,000
2017	Phase II Taxiway/Apron Construction	New parallel taxiway and apron with lighting	Taxiway and apron surface condition	\$508,500	\$28,250	\$28,250	\$565,000
2018	Fencing Project	New Airport Fencing	Fencing Condition	\$135,000	\$7,500	\$7,500	\$150,000
2019	Land Acquisition	Hangar Land Acquisition	Hangars Full	\$150,000	\$7,500	\$7,500	\$165,000
2020	Hangars	New T-Hangars	Hangars Full	\$150,000	\$7,500	\$7,500	\$165,000
2021	Remodel Terminal	Remodel Terminal	Repairs Needed	\$63,000	\$3,500	\$3,500	\$70,000
2021	Fuel System Upgrade	Upgrade Fuel System	Repairs Needed	\$85,500	\$4,750	\$4,750	\$95,000
2023	SRE Building	SRE Building		\$225,000	\$12,500	\$12,500	\$250,000
2025	Bi-Directional Tractor	Bi-Directional Tractor		\$126,000	\$7,000	\$7,000	\$140,000
2026	Hangars	New T-Hangars	Hangars Full	\$150,000	\$7,500	\$7,500	\$165,000
2027-2033	Land Acquisition	Land Acquisition	Hangars Full	\$373,500	\$20,750	\$20,750	\$415,000
2027-	Hangars	New T-Hangars	Hangars Full	\$373,500	\$20,750	\$20,750	\$415,000

COST BREAKDOWN

Phase	Clark	LRA	Total
Bidding	\$6,974.97	\$5,811.70	\$12,786.67
Construction Admin	\$38,994.66	\$15,363.23	\$54,357.89
Resident Engineering	\$28,500.65	\$0.00	\$28,500.65
Total	\$74,470.28	\$21,174.93	\$95,645.21

Lincoln County Airport Taxiway Replacement AIP 3-46-0078-13-2016 Thursday, February 4, 2016 at 10:00 am		D&G Concrete Construction, Inc. Greg B. Braugh, President 1608 East 98th Street South Sioux Falls, SD 57104 Phone: 605-338-4397 Fax: 605-338-9507		Dakota Contracting Corporation San Alan Jantana, President 2208 West 50th Street Sioux Falls, SD 57105 Phone: 605-336-0500 Fax: 605-338-8090		B&C Civil & Construction, Inc. Finance Manager, Sec/Treasurer 1453 75th Avenue Dell Rapids, SD 57022 Phone: 605-428-5483 Fax: 605-428-5484		Thousand Contractors David Kerr, Estimator 208 West 4th Street Suite 203 Dell Rapids, SD 57022 Phone: 605-610-4316 Fax: 605-428-3570		
Item Number	Item Description	Estimated Quantity	Unit Cost	Item Total	Unit Cost	Item Total	Unit Cost	Item Total	Unit Cost	Item Total
<b>General</b>										
1	Construction Sinking	1 LS	14,010.50	\$14,010.50	12,000.00	\$12,000.00	11,500.00	\$11,500.00	19,900.00	\$19,900.00
2	Construction Safety Phasing Plan	1 LS	11,462.00	\$11,462.00	10,000.00	\$10,000.00	40,000.00	\$40,000.00	9,290.00	\$9,290.00
3	Mobilization	1 LS	101,160.00	\$101,160.00	58,500.00	\$58,500.00	80,000.00	\$80,000.00	45,000.00	\$45,000.00
<b>Earthwork</b>										
4	Pavement Removal	13,422 SY	2.03	\$27,246.66	2.15	\$28,857.30	7.25	\$30,199.50	5.45	\$73,149.90
5	Pavement Marking Removal	41.5 LF	6.36	\$2,639.40	6.60	\$2,739.00	7.00	\$2,905.00	1.80	\$747.00
6	Riprap Remove & Reset	154 SY	5.20	\$800.80	5.50	\$847.00	6.00	\$924.00	60.30	\$9,286.20
7	Bluffard Removal	2 EA	520.00	\$1,040.00	550.00	\$1,100.00	550.00	\$1,100.00	6,000.00	\$12,000.00
8	Clear and Grub Tree	14 EA	312.00	\$4,368.00	330.00	\$4,620.00	350.00	\$4,900.00	605.00	\$8,470.00
9	Unclassified Excavation	3,865 CY	8.32	\$32,156.80	8.80	\$34,017.60	9.50	\$36,717.50	28.95	\$111,801.75
10	Scarify and Recompact Subgrade 12"	16,270 SY	0.52	\$8,460.40	0.55	\$8,948.50	0.80	\$8,135.00	1.20	\$19,524.00
11	Installation & Removal Silt Fence	105 LF	5.94	\$623.70	6.20	\$651.00	8.00	\$840.00	6.75	\$708.75
12	Installation & Removal of Inlet Protection	9 EA	106.00	\$954.00	110.00	\$990.00	160.00	\$1,440.00	120.00	\$1,080.00
<b>Flexible Base Course</b>										
13	Crushed Aggregate Base Course 6"	16,270 SY	7.49	\$121,862.30	7.65	\$124,465.50	7.00	\$113,800.00	12.10	\$196,867.00
<b>Flexible Surface Course</b>										
14	Hot Mix Asphalt - Base Course 2"	412 SY	26.42	\$10,885.04	17.15	\$7,065.80	28.00	\$11,536.00	32.60	\$13,431.20
15	Hot Mix Asphalt - Surface Course 2"	412 SY	28.63	\$11,795.56	17.15	\$7,065.80	30.00	\$12,360.00	35.00	\$14,470.00
<b>Rigid Pavement</b>										
16	Portland Cement Concrete Pavement 6"	11,112 SY	29.50	\$327,804.00	35.35	\$392,809.20	32.50	\$361,140.00	48.40	\$537,820.80
<b>Miscellaneous</b>										
17	Joint Sealing Filler	10,070 LF	2.10	\$21,147.00	0.86	\$8,660.20	2.50	\$25,175.00	4.85	\$48,839.50
18	Taxway Marking	1 LS	18,020.00	\$18,020.00	18,700.00	\$18,700.00	20,000.00	\$20,000.00	24,130.00	\$24,130.00
<b>Drainage</b>										
19	24" Class 3 Reinforced Concrete Pipe	160 LF	49.92	\$7,987.20	52.80	\$8,448.00	55.00	\$8,800.00	73.00	\$11,580.00
20	6" Smooth Wall Perforated PVC Pipe	7,198 LF	10.40	\$74,859.20	11.00	\$79,178.00	12.00	\$86,376.00	14.50	\$104,371.00
21	Porous Backfill	1,600 CY	21.84	\$34,944.00	23.10	\$36,960.00	24.00	\$38,400.00	22.95	\$36,720.00
22	Nonwoven Filter Fabric	25,867 SY	1.66	\$42,939.22	1.80	\$46,560.00	1.75	\$45,267.25	1.20	\$31,040.40
23	48" Concrete Manhole	1 EA	2,080.00	\$2,080.00	2,200.00	\$2,200.00	2,350.00	\$2,350.00	4,825.00	\$4,825.00
24	Concrete Junction Structure	12 EA	2,153.72	\$25,844.64	1,690.00	\$20,280.00	2,550.00	\$30,600.00	1,810.00	\$21,720.00
25	6" Inspection Handholes	10 EA	333.15	\$3,331.50	855.00	\$8,550.00	650.00	\$6,500.00	609.00	\$6,090.00
26	Reinforced Concrete Outfall Structure	4 EA	442.00	\$1,768.00	470.00	\$1,880.00	500.00	\$2,000.00	1,450.00	\$5,800.00
<b>Furling</b>										
27	Hydro Seeding	6 AC	706.67	\$4,240.02	735.00	\$4,410.00	2,400.00	\$14,400.00	805.00	\$4,830.00
28	Topsowing Salvage & Replace 6"	1,980 CV	7.28	\$14,196.00	8.25	\$16,087.50	8.00	\$15,600.00	9.65	\$18,817.50
29	Hydro Mulching	6 AC	1,908.00	\$11,448.00	1,980.00	\$11,880.00	1,600.00	\$9,600.00	2,170.00	\$13,020.00
30	Erosion Control Blanket	9,415 SY	1.75	\$16,476.25	1.85	\$17,417.75	1.60	\$15,064.00	2.00	\$18,830.00
<b>Lighting</b>										
31	Trenching & Backfilling	50 LF	3.03	\$151.50	3.15	\$157.50	3.50	\$175.00	4.55	\$227.50
32	No. 8 AWG L-824C Cable	50 LF	2.65	\$132.50	2.75	\$137.50	3.00	\$150.00	1.70	\$85.00
33	Bare Counterpoise Wire	50 LF	3.91	\$295.50	6.15	\$307.50	6.50	\$322.50	3.20	\$160.00
34	Electrical Conduit	2,550 LF	3.38	\$9,129.00	3.75	\$9,562.50	4.00	\$10,200.00	5.95	\$15,172.50
35	Electrical Conduit Concrete Encased	50 LF	11.08	\$554.00	11.50	\$575.00	12.00	\$600.00	19.70	\$985.00
36	Airport Obstruction Light	37 EA	1,169.99	\$43,289.63	1,215.00	\$44,955.00	1,300.00	\$48,100.00	1,135.00	\$41,995.00
37	Relocate Existing Wind Sock	1 LS	2,457.80	\$2,457.80	2,550.00	\$2,550.00	2,750.00	\$2,750.00	2,415.00	\$2,415.00
38	Medium Intensity Threshold Light	4 EA	1,976.29	\$7,905.16	2,050.00	\$8,200.00	2,200.00	\$8,800.00	2,835.00	\$11,340.00
<b>TOTAL AMOUNT BID ITEMS 1 THROUGH 38</b>				<b>\$1,022,465.28</b>	<b>\$1,042,328.15</b>	<b>\$1,108,819.25</b>	<b>\$1,496,590.00</b>			

Apparent Low Bidder:

I hereby certify that this is a correct tabulation of all bids received on the project and recommend a contract be awarded contingent upon FAA grant authorization to DR&G Concrete Construction, Inc.

*D.P. B...* PE

Engineer: Clark Engineering Corporation, Sioux Falls, SD

MARTIN MUNICIPAL AIRPORT 011-2016 GRANT  
COST SUMMARY

Consulting Services

Wildlife Perimeter Fence Phase 1  
(Design, Bidding and Negotiations) ..... \$ 49,755.61

Administration

Administration, Legal, Advertising, etc. ....\$ 1,355.50

TOTAL \$ 51,111.11



## PROPOSAL REQUEST

Proposals will be received by the City of Mobridge, South Dakota, on behalf of the Mobridge Municipal Airport, for a blade and box pusher that will be utilized for snow removal and attached to the current tractor owned by the Mobridge Municipal Airport. Proposals will be received up to 5:00 pm (local time) on the 15th day of February 2016 at the City Hall located at 114 1<sup>st</sup> Ave E., Mobridge, South Dakota.

Each proposal must be submitted in a sealed envelope, addressed to City of Mobridge, 114 1<sup>st</sup> Ave. E., Mobridge, SD 57601 and must be received not later than 5:00 pm local time, February, 15th, 2016. Each envelope containing a proposal must be plainly marked on the outside as Proposal for Snow Removal Equipment Attachments for the Mobridge Municipal Airport.

### **BLADE AND BOX PUSHER, 10 FOOT FRONT MOUNTED**

#### General:

The Buy American Preferences under 49 U.S.C. § 50101 require that all steel and manufactured goods used in Airport Improvement Program (AIP) funded projects be produced in the United States. In accepting AIP funding, grant recipients must certify that all steel or manufactured products used on any portion of the AIP-funded project are produced in the United States and are of 100 percent U.S. materials.

The price for the equipment shall include transportation to the Mobridge Municipal Airport, installation of the product(s), and a minimum of one hour of training covering operation, safety and maintenance.

The product(s) shall mount to the Great Bend Loader of the MX110 Wheel Tractor currently owned by the City of Mobridge.

All items not specified shall conform to manufacturer's specifications. Warranty shall be 100% parts and labor for 20 hours on the machine. Written warranty contract shall be delivered with the unit. Warranty contract shall be honored by all Manufacturer's Authorized Dealers.

#### Angle:

Shall be a fixed or variable angle blade.

#### Width:

Shall be a minimum of 10'.

#### Height:

Shall be a minimum of 30".

The City of Mobridge retains the right to accept or reject any or all bids.

**Mobridge Municipal Airport**  
**Summary of Project Costs and Funding**  
**AIP 3-46-0038-011-2016**

Project	Grant Application	
	Total Project Costs	Federal Amount
<b><u>Engineering/Planning</u></b>		
Design of Runway 12/30 and Connector Taxiway Reconstruction, Turnarounds Expansion and Replacement of Runway 12/30 Edge Lights System and PAPI's	\$ 147,749.63	\$ 132,974.00
<b>Total Engineering</b>	<b>\$ 147,749.63</b>	<b>\$ 132,974.00</b>
<b><u>Construction</u></b>		
<b>Total Construction</b>	<b>\$ -</b>	<b>\$ -</b>
<b><u>Testing</u></b>		
Runway 12/30, Turnarounds and Connector Taxiway Soil Borings/Soils Report	\$ 10,950.00	\$ 9,855.00
<b>Total Testing</b>	<b>\$ 10,950.00</b>	<b>\$ 9,855.00</b>
<b><u>Equipment</u></b>		
Snow Removal Equipment - 10' Blade and Box Pusher	\$ 2,990.00	\$ 2,691.00
<b>Total Equipment</b>	<b>\$ 2,990.00</b>	<b>\$ 2,691.00</b>
<b><u>Administration</u></b>		
Advertisement for Bids	\$ 45.25	\$ 40.00
Legal	\$ -	\$ -
Admin	\$ -	\$ -
<b>Total Administration</b>	<b>\$ 45.25</b>	<b>\$ 40.73</b>
<b>Total Project Costs</b>	<b>\$ 161,734.88</b>	<b>\$ 145,560.00</b>
	<b>Federal (90%)</b>	<b>\$ 145,560.00</b>
	<b>State Share (5%)</b>	<b>\$ 8,087.00</b>
	<b>Local Share (5%)</b>	<b>\$ 8,087.88</b>
		<b>\$ 161,734.88</b>

## Project Sketch

Mobridge Municipal Airport  
Mobridge, South Dakota



### Project Description

Reconstruct Runway 12/30 (4,410'± X 75'); Reconstruct Taxiway Connector (200'± X 35');  
Expand Runway 12/30 Turnarounds; Replace Runway 12/30 Edge Light System and PAPI's

**HANGAR TAXILANE IMPROVEMENTS**  
**ONIDA MUNICIPAL AIRPORT**  
**ONIDA, SOUTH DAKOTA**  
**AIP #3-46-0041-009-2016**  
**A-6326**  
**BID TABULATION**  
**6/28/2016**

Base Bid					Morris, Inc. Pierre, SD	
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$36,650.00	\$36,650.00
2	GP-50	Construction Staking	1	L.S.	\$11,800.00	\$11,800.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$8,600.00	\$8,600.00
4	P-101	Remove and Dispose of Asphalt Surfacing	204	SqYd	\$6.50	\$1,326.00
5	P-152	Unclassified Excavation	1,415	CuYd	\$9.35	\$13,230.25
6	P-152	Disposal of Excess Material	918	CuYd	\$6.85	\$6,288.30
7	P-154 (MOD)	Subbase Course	1,950.0	Tons	\$25.55	\$49,822.50
8	P-208 (MOD)	Aggregate Base Course	525.0	Tons	\$29.65	\$15,566.25
9	P-403	Bituminous Base/Surface Course	258.0	Tons	\$146.50	\$37,797.00
10	P-602	Bituminous Prime Coat	2.1	Tons	\$1,500.00	\$3,150.00
11	P-603	Bituminous Tack Coat	0.7	Tons	\$1,000.00	\$700.00
12	P-610	6" PCC Pavement	26.0	CuYd	\$1,100.00	\$28,600.00
13	P-620	Taxiway Marking	1	L.S.	\$3,600.00	\$3,600.00
14	D-701	15" RCP	40	Ft.	\$80.00	\$3,200.00
15	D-701	15" RCP Bend	1	Each	\$500.00	\$500.00
16	D-701	18" RCP Arch	56	Ft.	\$95.00	\$5,320.00
17	D-701	18" RCP Arch Flared End	2	Each	\$715.00	\$1,430.00
18	D-701	Connect to Existing RCP	2	Each	\$1,000.00	\$2,000.00
19	D-751	2' x 3' Type B Storm Sewer Inlet w/Type E Frame and Grate and 10' x 10' Concrete Apron	1	Each	\$6,550.00	\$6,550.00
20	T-901	Seeding and Fertilizing	2.0	Acre	\$3,600.00	\$7,200.00
21	T-905	Topsoiling	461	CuYd	\$5.35	\$2,466.35
22	IL-100	Field Laboratory, Type I	1	Each	\$13,500.00	\$13,500.00
23	Plans	Remove and Dispose of RCP Flared End	2	Each	\$300.00	\$600.00
24	Plans	High Flow Silt Fence	430	Ft.	\$8.50	\$3,655.00
25	Plans	Sediment Control at Inlet/Culvert	3	Each	\$650.00	\$1,950.00
<b>Total Base Bid</b>						<b>\$265,501.65</b>

I HEREBY CERTIFY THAT THE FOREGOING IS AN ACCURATE REPRESENTATION AND TABULATION OF ALL BIDS RECEIVED AND THAT THE MATHEMATICS HAVE BEEN CHECKED AND IS TO THE BEST OF MY KNOWLEDGE CORRECT.

PROJECT ENGINEER: Michael A. Smith DATE: 6-28-2016

# Helms

## ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19  
P.O. Box 111  
Aberdeen, SD 57402

Phone (605) 225-1212 Fax (605) 225-3180  
Email: [operations@helmsengineers.com](mailto:operations@helmsengineers.com)

**Onida Hangar Taxilane Improvements  
Onida Municipal Airport  
AIP #3-46-0041-009-2016  
Helms # A-6326  
Revised Engineer's Estimate  
6/29/2016**

**Base Bid**

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Cost
1	GP-105	Mobilization	1	L.S.	\$36,650.00	\$36,650.00
2	GP-50	Construction Staking	1	L.S.	\$11,800.00	\$11,800.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$8,600.00	\$8,600.00
4	P-101	Remove and Dispose of Asphalt Surfacing	204	SqYd	\$6.50	\$1,326.00
5	P-152	Unclassified Excavation	1,415	CuYd	\$9.35	\$13,230.25
6	P-152	Disposal of Excess Material	918	CuYd	\$6.85	\$6,288.30
7	P-154 (MOD)	Subbase Course	1,950.0	Tons	\$25.55	\$49,822.50
8	P-208 (MOD)	Aggregate Base Course	525.0	Tons	\$29.65	\$15,566.25
9	P-403	Bituminous Base/Surface Course	258.0	Tons	\$146.50	\$37,797.00
10	P-602	Bituminous Prime Coat	2.1	Tons	\$1,500.00	\$3,150.00
11	P-603	Bituminous Tack Coat	0.7	Tons	\$1,000.00	\$700.00
12	P-610	6" PCC Pavement	26.0	CuYd	\$1,100.00	\$28,600.00
13	P-620	Taxiway Marking	1	L.S.	\$3,600.00	\$3,600.00
14	D-701	15" RCP	40	Ft	\$80.00	\$3,200.00
15	D-701	15" RCP Bend	1	Each	\$500.00	\$500.00
16	D-701	18" RCP Arch	56	Ft	\$95.00	\$5,320.00
17	D-701	18" RCP Arch Flared End	2	Each	\$715.00	\$1,430.00
18	D-701	Connect to Existing RCP	2	Each	\$1,000.00	\$2,000.00
19	D-751	2' x 3' Type B Storm Sewer Inlet w/Type E Frame and Grate and 10' x 10' Concrete Apron	1	Each	\$6,550.00	\$6,550.00
20	T-901	Seeding and Fertilizing	2.0	Acre	\$3,600.00	\$7,200.00
21	T-905	Topsoiling	461	CuYd	\$5.35	\$2,466.35
22	TL-100	Field Laboratory, Type I	1	Each	\$13,500.00	\$13,500.00
23	Plans	Remove and Dispose of RCP Flared End	2	Each	\$300.00	\$600.00
24	Plans	High Flow Silt Fence	430	Ft	\$8.50	\$3,655.00
25	Plans	Sediment Control at Inlet/Culvert	3	Each	\$650.00	\$1,950.00
<b>Construction Total</b>						<b>\$265,501.65</b>
<b>Design Engineering</b>						<b>\$14,825.00</b>
<b>Bidding &amp; Negotiations</b>						<b>\$3,570.00</b>
<b>Construction Administration</b>						<b>\$11,230.00</b>
<b>Construction Engineering</b>						<b>\$26,790.00</b>
<b>Asphalt Testing</b>						<b>\$6,000.00</b>
<b>Administration</b>						<b>\$12,083.35</b>
<b>Total Project Cost</b>						<b>\$340,000.00</b>



## **Project Narrative**

### **Hangar Taxilane Extension**

Currently at the Onida Municipal Airport, there are no additional locations for prospective aircraft owners to construct a new hangar building. In 1993, the hangar taxilane was extended off the new apron to the southeast for a length of approximately 400 feet. The hangar area on that taxilane is full. Another approximately 330 feet of hangar taxilane is proposed to accommodate a hangar expansion area. The city plans to construction a revenue producing hangar upon the construction of the hangar taxilane as there is no other location for one to be constructed. The airport manager receives 2-3 phone calls per month inquiring about potential hangar rental space.

### **Fuel Area Access Improvements**

The fuel system taxilane was constructed in 2012 to allow for fueling aircraft use. However, in addition to the based spray pilot use of the Air Tractor 802 (wingspan of 59'), two different users have King Air 200's (wingspan of 54.5') and a PC-12 regularly use the airport and the fueling system. The taxilane was constructed 25' wide for A and B I aircraft, however now that BII aircraft are using the fueling system, the taxilane needs to be improved to accommodate those aircraft.

PINE RIDGE / OGLALA SIOUX AIRPORT 014-2016 GRANT  
COST SUMMARY

<b>Construction</b>	
Apron Expansion (Phase 1) .....	\$ 552,764.00
<b>Consulting Services</b>	
Apron Expansion (Phase 1) (Construction Observation/ Construction Administration)....	\$ 86,837.56
<b>Material Testing Services</b>	
Apron Expansion (Phase 1) .....	\$ 14,335.00
<b>Administration</b>	
Administration, Legal, Advertising, etc. ....	\$ 3,841.22
<b>TOTAL</b>	<b>\$657,777.78</b>



**PINE RIDGE OGLALA SIOUX AIRPORT**  
**AIP NO. 3-46-0045-014-2016**

In compliance with your solicitation for furnishing field and laboratory testing services, the undersigned Aaron Swan & Associates hereby proposes to furnish all labor, equipment and materials required to perform the field work, sampling and testing at the unit prices shown for each item in the following schedule.

**CONSTRUCTION TESTS**

Item	Description	Estimated Quantity	Unit	Unit Price	Amount
P-152	Excavation and Embankment				
1	Proctors	3	Each	\$ 200 <sup>00</sup>	\$ 600 <sup>00</sup>
2	Density	8	Each	\$ 40 <sup>00</sup>	\$ 320 <sup>00</sup>
P-208	Crushed Aggregate Base Course				
3	Proctor	3	Each	\$ 200 <sup>00</sup>	\$ 600 <sup>00</sup>
4	Density	6	Each	\$ 40 <sup>00</sup>	\$ 240 <sup>00</sup>
5	Gradation (through 0.02 mm)	3	Each	\$ 100 <sup>00</sup>	\$ 300 <sup>00</sup>
6	Liquid Limit and Plasticity Index (comb.)	3	Each	\$ 40 <sup>00</sup>	\$ 120 <sup>00</sup>
7	Shale	3	Each	\$ 30 <sup>00</sup>	\$ 90 <sup>00</sup>
8	Fractured Faces	3	Each	\$ 10 <sup>00</sup>	\$ 30 <sup>00</sup>
9	Aggregate Physical Properties (clay, iron oxide, soft particles, unit weights)	3	Each	\$ 30 <sup>00</sup>	\$ 90 <sup>00</sup>
P-403	Hot Mix Asphalt (HMA) Pavements Base, Leveling or Surface Course				
10	Technician (on and off-site)	72	Hours	\$ 65 <sup>00</sup>	\$ 4,680 <sup>00</sup>
D-701	Class B Bedding				
11	Gradation	2	Each	\$ 100 <sup>00</sup>	\$ 200 <sup>00</sup>
D-705	Porous Material, No. 2				
12	Gradation	2	Each	\$ 100 <sup>00</sup>	\$ 200 <sup>00</sup>
-	General				
13	Miles $\frac{20.5}{10}$ (one-way distance) x 2 =	4,100	Miles	\$ 0.65	\$ 2,665 <sup>00</sup>
14	Travel Time $\frac{3.5}{10}$ (one-way hours) x 2 =	70	Hours	\$ 40 <sup>00</sup>	\$ 2,800 <sup>00</sup>
15	Final Summary Report	1	Lump Sum	\$ 400 <sup>00</sup>	\$ 400 <sup>00</sup>
16	Contingency				\$1,000.00

TOTAL QUOTE FOR TESTING SERVICES \$ 14,335<sup>00</sup>

The total price quoted is for specified construction testing services to be required for this project including all materials, labor, tools, equipment, secretarial, technical and professional services normally related to the work called for. The price quoted is the maximum amount to be allowed under this project for testing services without prior approval of the Federal Aviation Administration, Owner and the Project Engineer.



**TABULATION OF BIDS**  
**PINE RIDGE OGLALA SIOUX AIRPORT**  
**AIP 3-46-045-014-2015**  
**GENERAL AVIATION APRON EXPANSION**

Bid Letting: June 16, 2016  
 Comp. No. 10514109  
 Checked by: Garret Houck

ITEM	UNIT DESCRIPTION	QTY	UNIT	Engineer's Estimate			Bituminous Paving Inc. Ortonville, MN			Hillis Maintenance Rapid City, SD			Sharpe Enterprises, Pierre, SD				
				UNIT PRICE	TOTAL SUM	UNIT PRICE	TOTAL SUM	UNIT PRICE	TOTAL SUM	UNIT PRICE	TOTAL SUM	UNIT PRICE	TOTAL SUM				
Schedule 1—Civil Construction																	
Schedule 1—Division 1																	
General Aviation Apron Expansion																	
1	Pavement Removal (Full Depth)	2,272	S.Y.	\$5.00	\$11,360.00	\$7.00	\$15,504.00	\$5.60	\$12,723.20	\$7.00	\$15,904.00	\$3.00	\$6,816.00	\$7.00	\$15,904.00		
2	Unclassified Excavation	3,188	C.Y.	\$15.00	\$47,820.00	\$9.00	\$28,692.00	\$10.25	\$32,772.00	\$10.25	\$32,772.00	\$2.00	\$6,376.00	\$10.25	\$32,772.00		
3	Water	100	M Gall	\$50.00	\$5,000.00	\$45.00	\$4,500.00	\$38.00	\$3,800.00	\$38.00	\$3,800.00	\$75.00	\$7,500.00	\$38.00	\$3,800.00		
4	Aggregate Base Course (SDDOT 862)	1,518	C.Y.	\$70.00	\$105,260.00	\$65.00	\$98,670.00	\$54.25	\$82,531.50	\$54.25	\$82,531.50	\$38.00	\$57,684.00	\$54.25	\$82,531.50		
5	Geotextile Fabric	6,918	S.Y.	\$3.50	\$24,213.00	\$2.00	\$13,836.00	\$2.50	\$17,295.00	\$2.50	\$17,295.00	\$4.00	\$27,672.00	\$2.50	\$17,295.00		
6	Hot Mix Asphalt (HMA) Pavement (SDDOT 320)	1,575	Ton	\$125.00	\$196,875.00	\$114.00	\$179,550.00	\$119.25	\$187,918.75	\$119.25	\$187,918.75	\$230.00	\$362,250.00	\$119.25	\$187,918.75		
7	Bituminous Tack	540	Gall	\$5.50	\$2,970.00	\$5.00	\$2,700.00	\$3.00	\$1,620.00	\$3.00	\$1,620.00	\$5.00	\$2,700.00	\$3.00	\$1,620.00		
8	Runway and Taxiway Paving	620	S.F.	\$6.00	\$3,720.00	\$15.00	\$9,300.00	\$12.80	\$7,936.00	\$12.80	\$7,936.00	\$9.00	\$5,580.00	\$12.80	\$7,936.00		
9	Obsolete Existing Pavement Paving	44	S.F.	\$8.00	\$352.00	\$50.00	\$2,200.00	\$32.00	\$1,408.00	\$32.00	\$1,408.00	\$80.00	\$3,520.00	\$32.00	\$1,408.00		
10	Remove and Dispose of Aircraft Tiedown	6	Each	\$100.00	\$600.00	\$100.00	\$600.00	\$94.00	\$564.00	\$94.00	\$564.00	\$200.00	\$1,200.00	\$94.00	\$564.00		
11	Aircraft Tiedown Anchor in Bituminous Pavement	18	Each	\$250.00	\$4,500.00	\$400.00	\$7,200.00	\$459.00	\$8,262.00	\$459.00	\$8,262.00	\$30.00	\$540.00	\$459.00	\$8,262.00		
12	Remove and Salvage 24-inch RC Pipe	105	L.F.	\$10.00	\$1,050.00	\$4.00	\$420.00	\$38.40	\$4,032.00	\$38.40	\$4,032.00	\$30.00	\$3,150.00	\$38.40	\$4,032.00		
13	24-inch Reinforced Concrete Pipe, Cl. 3	140	L.F.	\$60.00	\$8,400.00	\$75.00	\$10,500.00	\$34.50	\$4,830.00	\$34.50	\$4,830.00	\$75.00	\$10,500.00	\$34.50	\$4,830.00		
14	24-inch Reinforced Concrete Pipe, Cl. 3 Flared End Section	2	Each	\$1,000.00	\$2,000.00	\$900.00	\$1,800.00	\$1,024.00	\$2,048.00	\$1,024.00	\$2,048.00	\$1,500.00	\$3,000.00	\$1,024.00	\$2,048.00		
15	4" PVC Outlet Line & Heavilall	2	Each	\$500.00	\$1,000.00	\$600.00	\$1,200.00	\$770.00	\$1,540.00	\$770.00	\$1,540.00	\$1,000.00	\$2,000.00	\$770.00	\$1,540.00		
16	4" Perforated Edge and Pipe With Filter Sock & Porous Material #2	776.0	L.F.	\$8.00	\$6,208.00	\$9.00	\$7,022.00	\$10.25	\$7,974.50	\$10.25	\$7,974.50	\$6.00	\$4,656.00	\$10.25	\$7,974.50		
17	Seeding	1	Acre	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	\$1,150.00	\$1,150.00	\$1,150.00	\$1,150.00	\$2,500.00	\$2,500.00	\$1,150.00	\$1,150.00		
18	Topping (On-Site)	419	C.Y.	\$10.00	\$4,190.00	\$10.00	\$4,190.00	\$17.00	\$7,123.00	\$17.00	\$7,123.00	\$25.00	\$10,475.00	\$17.00	\$7,123.00		
19	Mulching	4,840	S.Y.	\$0.75	\$3,630.00	\$1.00	\$4,840.00	\$0.95	\$4,598.00	\$0.95	\$4,598.00	\$4.00	\$19,360.00	\$0.95	\$4,598.00		
20	Long-Term Erosion Control Mat	540	S.Y.	\$8.00	\$4,320.00	\$4.00	\$2,160.00	\$3.15	\$1,701.00	\$3.15	\$1,701.00	\$20.00	\$10,800.00	\$3.15	\$1,701.00		
21	Borolls	240	L.F.	\$8.00	\$1,920.00	\$7.00	\$1,680.00	\$5.10	\$1,224.00	\$5.10	\$1,224.00	\$35.00	\$8,400.00	\$5.10	\$1,224.00		
22	Relocate Retroreflective Marker	26	Each	\$100.00	\$2,600.00	\$150.00	\$3,900.00	\$128.00	\$3,328.00	\$128.00	\$3,328.00	\$40.00	\$1,040.00	\$128.00	\$3,328.00		
23	Relocate Airport Non-Lighted Sign, Size 2	1	Each	\$500.00	\$500.00	\$4,000.00	\$4,000.00	\$2,840.00	\$2,840.00	\$2,840.00	\$2,840.00	\$100.00	\$100.00	\$2,840.00	\$2,840.00		
24	Field Office/Laboratory	1	L.S.	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$8,735.00	\$8,735.00	\$8,735.00	\$8,735.00	\$7,500.00	\$7,500.00	\$8,735.00	\$8,735.00		
25	Asst. Traffic Control	1	L.S.	\$1,500.00	\$1,500.00	\$6,000.00	\$6,000.00	\$3,840.00	\$3,840.00	\$3,840.00	\$3,840.00	\$5,000.00	\$5,000.00	\$3,840.00	\$3,840.00		
26	Mobilization	1	L.S.	\$50,306.00	\$50,306.00	\$128,000.00	\$128,000.00	\$152,930.95	\$152,930.95	\$152,930.95	\$152,930.95	\$250,000.00	\$250,000.00	\$152,930.95	\$152,930.95		
TOTAL BID SCHEDULE 1—DIVISION 1:					\$545,000.00		\$552,784.00		\$584,330.00		\$552,784.00		\$584,330.00		\$1,125,287.00		
SUMMARY OF BIDS:					\$545,000.00		\$552,784.00		\$584,330.00		\$552,784.00		\$584,330.00		\$1,125,287.00		

TRUE TABULATION OF BIDS  
 Kadmas, Lee & Jackson

**RUNWAY 14/32 RECONSTRUCTION  
PLATTE MUNICIPAL AIRPORT  
PLATTE, SOUTH DAKOTA  
AIP #3-46-0066-009-2016  
A-5917  
BID TABULATION  
6/29/2016**

Item #		Spec #	Item Description	Quantity	Unit	Midland Contracting, Inc. Huron, SD		Midwest Contracting, LLC Marshall, MN		VanderPol Dragline, Inc. Mitchell, SD	
						Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	GP-105		Mobilization	1	L.S.	\$131,381.00	\$131,381.00	\$96,000.00	\$96,000.00	\$123,000.00	\$123,000.00
2	GP-50		Construction Staking	1	L.S.	\$36,750.00	\$36,750.00	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00
3	S-100		Construction Safety Phasing Plan	1	L.S.	\$7,250.00	\$7,250.00	\$7,500.00	\$7,500.00	\$8,970.00	\$8,970.00
4	P-152		Unclassified Excavation	30,748	CuYd	\$3.00	\$92,244.00	\$4.85	\$149,127.80	\$6.15	\$189,100.20
5	P-152		Disposal of Excess Material	16,450	CuYd	\$1.00	\$16,450.00	\$3.85	\$63,332.50	\$4.80	\$78,960.00
6	P-154 (MOD)		Subbase Course	15,550.0	Ton	\$15.00	\$232,950.00	\$15.85	\$246,150.50	\$18.70	\$290,411.00
7	P-208 (MOD)		Aggregate Base Course	7,520.0	Ton	\$17.50	\$131,600.00	\$18.90	\$142,128.00	\$23.65	\$177,848.00
8	P-401		Bituminous Base / Surface Course	3,850.0	Ton	\$73.50	\$282,975.00	\$70.00	\$269,500.00	\$77.00	\$296,450.00
9	P-401		Bituminous Binder (PG 64-34)	269.0	Ton	\$635.00	\$170,815.00	\$605.00	\$162,745.00	\$665.00	\$178,885.00
10	P-602		Bituminous Prime Coat	29.0	Ton	\$990.00	\$28,710.00	\$950.00	\$27,550.00	\$950.00	\$27,550.00
11	P-603		Bituminous Tack Coat	9.0	Ton	\$603.75	\$5,433.75	\$575.00	\$5,175.00	\$630.00	\$5,670.00
12	P-620		Runway & Taxiway Painting	1	L.S.	\$12,472.95	\$12,472.95	\$12,000.00	\$12,000.00	\$14,250.00	\$14,250.00
13	D-701		18" RCP	126	Ft	\$55.00	\$6,930.00	\$54.00	\$6,804.00	\$45.00	\$5,670.00
14	D-701		18" RCP Flared End	2	Each	\$500.00	\$1,000.00	\$745.00	\$1,490.00	\$475.00	\$950.00
15	D-705 (MOD)		4" Perforated Underdrain Piping	6,741	Ft	\$5.50	\$37,075.50	\$8.85	\$59,657.85	\$7.25	\$48,872.25
16	D-705 (MOD)		4" Solid Underdrain Piping	263	Ft	\$6.00	\$1,578.00	\$8.85	\$2,327.55	\$8.00	\$2,104.00
17	D-705 (MOD)		Underdrain Cleanout	22	Each	\$200.00	\$4,400.00	\$165.00	\$3,630.00	\$140.00	\$3,080.00
18	D-705 (MOD)		Connect Underdrain to RCP	4	Each	\$500.00	\$2,000.00	\$245.00	\$980.00	\$180.00	\$720.00
19	T-901		Seeding and Fertilizing	7.0	Acre	\$1,205.00	\$8,435.00	\$1,150.00	\$8,050.00	\$950.00	\$6,650.00
20	T-905		Topsoiling	4,292	CuYd	\$3.00	\$12,876.00	\$4.85	\$20,816.20	\$2.90	\$12,446.80
21	TL-100		Field Laboratory	1	Each	\$6,000.00	\$6,000.00	\$7,500.00	\$7,500.00	\$4,500.00	\$4,500.00
22	SP-1		Full Depth Reclamation (17" Nominal Depth)	22,202	SqYd	\$1.91	\$42,405.82	\$1.40	\$31,082.80	\$5.80	\$128,771.60
23	SP-1		Remove and Relay Blended Material (17" Nominal Depth)	22,557	SqYd	\$1.82	\$41,053.74	\$3.45	\$77,821.65	\$5.10	\$115,040.70
24	SP-2		Geogrid	2,000	SqYd	\$2.50	\$5,000.00	\$4.45	\$8,900.00	\$3.00	\$6,000.00
25	SP-3		Geotextile Separator Fabric	24,808	SqYd	\$1.25	\$31,010.00	\$1.65	\$40,933.20	\$2.20	\$54,577.60

**RUNWAY 14/32 RECONSTRUCTION  
PLATTE MUNICIPAL AIRPORT  
PLATTE, SOUTH DAKOTA  
AIP #3-46-0066-009-2016  
A-5917**

**BID TABULATION  
6/29/2016**

Bid Schedule A - IIMA		Midland Contracting, Inc. Huron, SD		Midwest Contracting, LLC Marshall, MN		VanderPol Dragnine, Inc. Mitchell, SD		
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price
26	L-108	#6 Bare Counterpoise	6,800	Ft	\$3.15	\$21,420.00	\$3.30	\$22,440.00
27	Plans	Remove and Dispose of 18" CMP	104	Ft	\$10.00	\$1,040.00	\$19.00	\$1,976.00
28	Plans	Remove and Dispose of Existing Asphalt (3" Nominal Depth)	283	SqYd	\$3.00	\$849.00	\$4.00	\$1,132.00
29	Plans	Remove and Salvage Existing Holding Position Sign	1	Each	\$210.00	\$210.00	\$200.00	\$200.00
30	Plans	Remove, Salvage, and Reset Vegetation Control Ring	70	Each	\$31.50	\$2,205.00	\$30.00	\$2,100.00
31	Plans	Remove, Salvage, and Reset Taxiway Reflector	8	Each	\$31.50	\$252.00	\$30.00	\$240.00
32	Plans	Raise Base Mount Runway / Taxiway Light (±1")	3	Each	\$273.00	\$819.00	\$260.00	\$780.00
33	Plans	Raise Base Mount Runway / Taxiway Light (±2")	2	Each	\$273.00	\$546.00	\$260.00	\$520.00
34	Plans	Raise Base Mount Runway / Taxiway Light (±3")	9	Each	\$273.00	\$2,457.00	\$260.00	\$2,340.00
35	Plans	Raise Base Mount Runway / Taxiway Light (±4")	6	Each	\$273.00	\$1,638.00	\$260.00	\$1,560.00
36	Plans	Raise Base Mount Runway / Taxiway Light (±5")	4	Each	\$273.00	\$1,092.00	\$260.00	\$1,040.00
37	Plans	Raise Base Mount Runway / Taxiway Light (±6")	3	Each	\$273.00	\$819.00	\$20.00	\$60.00
38	Plans	Raise L-867 Junction Box (16" Diameter)	3	Each	\$383.25	\$1,149.75	\$365.00	\$1,095.00
39	Plans	Raise Electrical Manhole	2	Each	\$220.50	\$441.00	\$210.00	\$420.00
40	Plans	Underdrain Outlet Structure	1	Each	\$250.00	\$250.00	\$745.00	\$745.00
41	Plans	ReflectORIZED Holding Position Sign	1	Each	\$1,945.00	\$1,945.00	\$2,000.00	\$2,000.00
42	Plans	High Flow Silt Fence	30	Ft	\$10.50	\$315.00	\$10.00	\$300.00
43	Plans	Type II Erosion Control Blanket	5,900	SqYd	\$2.10	\$12,390.00	\$2.00	\$11,800.00
<b>Total Bid Schedule A</b>						<b>\$1,398,633.51</b>		<b>\$1,534,910.05</b>
								<b>\$1,868,006.15</b>

**RUNWAY 1432 RECONSTRUCTION  
PLATTE MUNICIPAL AIRPORT  
PLATTE, SOUTH DAKOTA  
AIP #3-46-0066-009-2016**

A-5917  
**BID TABULATION**  
6/29/2016

Item #		Spec #	Item Description	Quantity	Unit	T & R Contracting, Inc. Sioux Falls, SD		Midland Contracting, Inc. Huron, SD		BX Civil & Construction Dell Rapids, SD	
						Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	GP-105		Mobilization	1	L.S.	\$150,101.93	\$150,101.93	\$210,000.00	\$210,000.00	\$239,300.00	\$239,300.00
2	GP-50		Construction Staking	1	L.S.	\$37,800.00	\$37,800.00	\$36,750.00	\$36,750.00	\$40,000.00	\$40,000.00
3	S-100		Construction Safety Phasing Plan	1	L.S.	\$8,100.00	\$8,100.00	\$7,500.00	\$7,500.00	\$20,000.00	\$20,000.00
4	P-152		Unclassified Excavation	30.748	CuYd	\$3.24	\$99,623.52	\$3.00	\$92,244.00	\$2.50	\$76,870.00
5	P-152		Disposal of Excess Material	16.450	CuYd	\$1.08	\$17,766.00	\$1.00	\$16,450.00	\$1.00	\$16,450.00
6	P-154 (MOD)		Subbase Course	11,770.0	Ton	\$16.20	\$190,674.00	\$15.00	\$176,550.00	\$16.00	\$188,320.00
7	P-208 (MOD)		Aggregate Base Course	7,520.0	Ton	\$18.90	\$142,128.00	\$17.50	\$131,600.00	\$22.00	\$165,440.00
8	P-501		6" PCC Pavement	21,794	SqYd	\$34.25	\$746,444.50	\$36.33	\$791,776.02	\$42.00	\$915,348.00
9	P-605		Silicone Joint Sealing Filler	29.420	Ft	\$2.05	\$60,311.00	\$2.15	\$63,253.00	\$1.60	\$47,072.00
10	P-605		Hot Applied Joint Sealing Filler	292	Ft	\$5.40	\$1,576.80	\$5.67	\$1,655.64	\$5.00	\$1,460.00
11	P-605		Silicone Joint Sealing Filler w/Expansion Board	88	Ft	\$5.40	\$475.20	\$5.67	\$498.96	\$5.00	\$440.00
12	P-620		Runway & Taxiway Painting	1	L.S.	\$23,328.00	\$23,328.00	\$22,657.00	\$22,657.00	\$15,000.00	\$15,000.00
13	D-701		18" RCP	126	Ft	\$59.40	\$7,484.40	\$55.00	\$6,930.00	\$65.00	\$8,190.00
14	D-701		18" RCP Flared End	2	Each	\$540.00	\$1,080.00	\$500.00	\$1,000.00	\$1,000.00	\$2,000.00
15	D-705 (MOD)		4" Perforated Underdrain Piping	6,741	Ft	\$6.48	\$43,681.68	\$5.50	\$37,075.50	\$7.00	\$47,187.00
16	D-705 (MOD)		4" Solid Underdrain Piping	263	Ft	\$6.48	\$1,704.24	\$6.00	\$1,578.00	\$12.00	\$3,156.00
17	D-705 (MOD)		Underdrain Cleanout	22	Each	\$216.00	\$4,752.00	\$200.00	\$4,400.00	\$350.00	\$7,700.00
18	D-705 (MOD)		Connect Underdrain to RCP	4	Each	\$540.00	\$2,160.00	\$500.00	\$2,000.00	\$500.00	\$2,000.00
19	T-901		Seeding and Fertilizing	7.0	Acre	\$891.00	\$6,237.00	\$1,205.00	\$8,435.00	\$1,500.00	\$10,500.00
20	T-905		Topsoiling	4,292	CuYd	\$3.24	\$13,906.08	\$3.00	\$12,876.00	\$3.50	\$15,022.00
21	TL-100		Field Laboratory	1	Each	\$14,500.00	\$14,500.00	\$6,000.00	\$6,000.00	\$12,500.00	\$12,500.00
22	SP-1		Full Depth Reclamation (17" Nominal Depth)	22,202	SqYd	\$2.06	\$45,736.12	\$1.91	\$42,405.82	\$1.20	\$26,642.40
23	SP-1		Remove and Relay Blended Material (17" Nominal Depth)	22,557	SqYd	\$1.97	\$44,437.29	\$1.82	\$41,053.74	\$2.40	\$54,136.80
24	SP-2		Geogrid	2,000	SqYd	\$2.70	\$5,400.00	\$2.50	\$5,000.00	\$3.00	\$6,000.00
25	SP-3		Geotextile Separator Fabric	24,808	SqYd	\$1.35	\$33,490.80	\$1.25	\$31,010.00	\$1.50	\$37,212.00

**RUNWAY 14/32 RECONSTRUCTION**  
**PLATTE MUNICIPAL AIRPORT**  
**PLATTE, SOUTH DAKOTA**  
**AIP #3-46-0066-009-2016**  
**A-5917**  
**BID TABULATION**  
**6/29/2016**

Bid Schedule B - PCC		T & R Contracting, Inc. Sioux Falls, SD		Midland Contracting, Inc. Huron, SD		BX Civil & Construction Dell Rapids, SD		
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price
26	L-108	#6 Bare Counterpoise	6,800	Ft	\$3.24	\$22,032.00	\$3.50	\$23,800.00
27	Plans	Remove and Dispose of 18" CMP	104	Ft	\$10.80	\$1,123.20	\$18.00	\$1,872.00
28	Plans	Remove and Dispose of Existing Asphalt (3" Nominal Depth)	283	SqYd	\$3.24	\$916.92	\$7.00	\$1,981.00
29	Plans	Remove and Salvage Existing Holding Position Sign	1	Each	\$216.00	\$216.00	\$250.00	\$250.00
30	Plans	Remove, Salvage, and Reset Vegetation Control Ring	70	Each	\$32.40	\$2,268.00	\$35.00	\$2,450.00
31	Plans	Remove, Salvage, and Reset Taxiway Reflector	8	Each	\$32.40	\$259.20	\$35.00	\$280.00
32	Plans	Raise Base Mount Runway / Taxiway Light (±1")	3	Each	\$280.80	\$842.40	\$300.00	\$900.00
33	Plans	Raise Base Mount Runway / Taxiway Light (±2")	2	Each	\$280.80	\$561.60	\$300.00	\$600.00
34	Plans	Raise Base Mount Runway / Taxiway Light (±3")	9	Each	\$280.80	\$2,527.20	\$300.00	\$2,700.00
35	Plans	Raise Base Mount Runway / Taxiway Light (±4")	6	Each	\$280.80	\$1,684.80	\$300.00	\$1,800.00
36	Plans	Raise Base Mount Runway / Taxiway Light (±5")	4	Each	\$280.80	\$1,123.20	\$300.00	\$1,200.00
37	Plans	Raise Base Mount Runway / Taxiway Light (±6")	3	Each	\$280.80	\$842.40	\$300.00	\$900.00
38	Plans	Raise L-867 Junction Box (16" Diameter)	3	Each	\$394.20	\$1,182.60	\$425.00	\$1,275.00
39	Plans	Raise Electrical Manhole	2	Each	\$226.80	\$453.60	\$250.00	\$500.00
40	Plans	Asphalt Concrete Composite	50.0	Ton	\$253.80	\$12,690.00	\$175.00	\$8,750.00
41	Plans	Underdrain Outlet Structure	1	Each	\$243.00	\$243.00	\$250.00	\$250.00
42	Plans	Reflectorized Holding Position Sign	1	Each	\$2,001.24	\$2,001.24	\$1,945.00	\$1,945.00
43	Plans	High Flow Silt Fence	30	Ft	\$5.40	\$162.00	\$10.50	\$315.00
44	Plans	Erosion Control Blanket	5,900	SqYd	\$1.88	\$11,092.00	\$2.10	\$12,390.00
<b>Total Bid Schedule B</b>						<b>\$1,765,119.92</b>		<b>\$1,809,286.43</b>
								<b>\$2,019,054.20</b>

**RUNWAY 14/32 RECONSTRUCTION  
PLATTE MUNICIPAL AIRPORT  
PLATTE, SOUTH DAKOTA  
AIP #3-46-0066-009-2016**

A-5917  
**BID TABULATION**  
6/29/2016

<b>Bid Schedule B - PCC</b>					<b>Reede Construction, Inc. Aberdeen, SD</b>	
<b>Item #</b>	<b>Spec #</b>	<b>Item Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Price</b>
1	GP-105	Mobilization	1	L.S.	\$310,000.00	\$310,000.00
2	GP-50	Construction Staking	1	L.S.	\$50,000.00	\$50,000.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$25,000.00	\$25,000.00
4	P-152	Unclassified Excavation	30,748	CuYd	\$3.00	\$92,244.00
5	P-152	Disposal of Excess Material	16,450	CuYd	\$1.50	\$24,675.00
6	P-154 (MOD)	Subbase Course	11,770.0	Ton	\$16.00	\$188,320.00
7	P-208 (MOD)	Aggregate Base Course	7,520.0	Ton	\$21.00	\$157,920.00
8	P-501	6" PCC Pavement	21,794	SqYd	\$49.00	\$1,067,906.00
9	P-605	Silicone Joint Sealing Filler	29,420	Ft	\$3.00	\$88,260.00
10	P-605	Hot Applied Joint Sealing Filler	292	Ft	\$6.00	\$1,752.00
11	P-605	Silicone Joint Sealing Filler w/Expansion Board	88	Ft	\$6.00	\$528.00
12	P-620	Runway & Taxiway Painting	1	L.S.	\$20,000.00	\$20,000.00
13	D-701	18" RCP	126	Ft	\$70.00	\$8,820.00
14	D-701	18" RCP Flared End	2	Each	\$600.00	\$1,200.00
15	D-705 (MOD)	4" Perforated Underdrain Piping	6,741	Ft	\$7.00	\$47,187.00
16	D-705 (MOD)	4" Solid Underdrain Piping	263	Ft	\$8.00	\$2,104.00
17	D-705 (MOD)	Underdrain Cleanout	22	Each	\$650.00	\$14,300.00
18	D-705 (MOD)	Connect Underdrain to RCP	4	Each	\$600.00	\$2,400.00
19	T-901	Seeding and Fertilizing	7.0	Acre	\$1,000.00	\$7,000.00
20	T-905	Topsailing	4,292	CuYd	\$3.50	\$15,022.00
21	TL-100	Field Laboratory	1	Each	\$20,000.00	\$20,000.00
22	SP-1	Full Depth Reclamation (17" Nominal Depth)	22,202	SqYd	\$2.00	\$44,404.00
23	SP-1	Remove and Relay Blended Material (17" Nominal Depth)	22,557	SqYd	\$3.00	\$67,671.00
24	SP-2	Geogrid	2,000	SqYd	\$3.00	\$6,000.00
25	SP-3	Geotextile Separator Fabric	24,808	SqYd	\$1.50	\$37,212.00

**RUNWAY 14/32 RECONSTRUCTION**  
**PLATTE MUNICIPAL AIRPORT**  
**PLATTE, SOUTH DAKOTA**  
**AIP #3-46-0066-009-2016**

A-5917

**BID TABULATION**  
**6/29/2016**

Bid Schedule B - PCC				Reede Construction, Inc. Aberdeen, SD	
Item #	Spec #	Item Description	Quantity	Unit	Total Price
26	L-108	#6 Bare Counterpoise	6,800	Ft	\$27,200.00
27	Plans	Remove and Dispose of 18" CMP	104	Ft	\$1,248.00
28	Plans	Remove and Dispose of Existing Asphalt (3" Nominal Depth)	283	SqYd	\$1,132.00
29	Plans	Remove and Salvage Existing Holding Position Sign	1	Each	\$250.00
30	Plans	Remove, Salvage, and Reset Vegetation Control Ring	70	Each	\$2,450.00
31	Plans	Remove, Salvage, and Reset Taxiway Reflector	8	Each	\$280.00
32	Plans	Raise Base Mount Runway / Taxiway Light (±1")	3	Each	\$900.00
33	Plans	Raise Base Mount Runway / Taxiway Light (±2")	2	Each	\$600.00
34	Plans	Raise Base Mount Runway / Taxiway Light (±3")	9	Each	\$2,700.00
35	Plans	Raise Base Mount Runway / Taxiway Light (±4")	6	Each	\$1,800.00
36	Plans	Raise Base Mount Runway / Taxiway Light (±5")	4	Each	\$1,200.00
37	Plans	Raise Base Mount Runway / Taxiway Light (±6")	3	Each	\$900.00
38	Plans	Raise I-867 Junction Box (16" Diameter)	3	Each	\$1,350.00
39	Plans	Raise Electrical Manhole	2	Each	\$500.00
40	Plans	Asphalt Concrete Composite	50.0	Ton	\$10,000.00
41	Plans	Underdrain Outlet Structure	1	Each	\$1,200.00
42	Plans	ReflectORIZED Holding Position Sign	1	Each	\$5,000.00
43	Plans	High Flow Silt Fence	30	Ft	\$180.00
44	Plans	Erosion Control Blanket	5,900	SqYd	\$17,700.00
<b>Total Bid Schedule B</b>					<b>\$2,376,515.00</b>

I HEREBY CERTIFY THAT THE FOREGOING IS AN ACCURATE REPRESENTATION AND TABULATION OF ALL BIDS RECEIVED AND THAT THE MATHEMATICS HAVE BEEN CHECKED AND IS TO THE BEST OF MY KNOWLEDGE CORRECT.

PROJECT ENGINEER: Michael A. Schmidt DATE: 6-29-2016

# Helms & ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19  
P.O. Box 111  
Aberdeen, SD 57402

Phone (605) 225-1212 Fax (605) 225-3189  
Email: operations@helmsengr.com

**RUNWAY 14/32 RECONSTRUCTION  
PLATTE MUNICIPAL AIRPORT  
PLATTE, SOUTH DAKOTA  
AIP #3-46-0066-009-2016  
HELMS #A-5917  
REVISED ENGINEER'S ESTIMATE  
JUNE, 2016**

**Bid Schedule B - PCC**

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$150,101.93	\$150,101.93
2	GP-50	Construction Staking	1	L.S.	\$37,800.00	\$37,800.00
3	S-100	Construction Safety Plan	1	L.S.	\$8,100.00	\$8,100.00
4	P-152	Unclassified Excavation	30,748	CuYd	\$3.24	\$99,623.52
5	P-152	Disposal of Excess Material	16,450	CuYd	\$1.08	\$17,766.00
6	P-154 (MOD)	Subbase Course	11,770.0	Ton	\$16.20	\$190,674.00
7	P-208 (MOD)	Aggregate Base Course	7,520.0	Ton	\$18.90	\$142,128.00
8	P-501	6" PCC Pavement	21,794	SqYd	\$34.25	\$746,444.50
9	P-605	Silicone Joint Sealing Filler	29,420	Ft	\$2.05	\$60,311.00
10	P-605	Hot Applied Joint Sealing Filler	292	Ft	\$5.40	\$1,576.80
11	P-605	Silicone Joint Sealing Filler w/Expansion Board	88	Ft	\$5.40	\$475.20
12	P-620	Runway & Taxiway Painting	1	L.S.	\$23,328.00	\$23,328.00
13	D-701	18" RCP	126	Ft	\$59.40	\$7,484.40
14	D-701	18" RCP Flared End	2	Each	\$540.00	\$1,080.00
15	D-705 (MOD)	4" Perforated Underdrain Piping	6,741	Ft	\$6.48	\$43,681.68
16	D-705 (MOD)	4" Solid Underdrain Piping	263	Ft	\$6.48	\$1,704.24
17	D-705 (MOD)	Underdrain Cleanout	22	Each	\$216.00	\$4,752.00
18	D-705 (MOD)	Connect Underdrain to RCP	4	Each	\$540.00	\$2,160.00
19	T-901	Seeding and Fertilizing	7.0	Acre	\$891.00	\$6,237.00
20	T-905	Topsoiling	4,292	CuYd	\$3.24	\$13,906.08
21	TL-100	Field Laboratory, Type 1	1	Each	\$14,500.00	\$14,500.00
22	SP-1	Full Depth Reclamation (17" Nominal Depth)	22,202	SqYd	\$2.06	\$45,736.12
23	SP-1	Place and Compact Reclaimed Material (17" Nominal Depth)	22,557	SqYd	\$1.97	\$44,437.29
24	SP-2	Geogrid	2,000	SqYd	\$2.70	\$5,400.00
25	SP-3	Geotextile Separator Fabric	24,808	SqYd	\$1.35	\$33,490.80
26	L-108	#6 Bare Counterpoise	6,800	Ft	\$3.24	\$22,032.00
27	Plans	Remove and Dispose of 18" CMP	104	Ft	\$10.80	\$1,123.20
28	Plans	Remove and Dispose of Existing Asphalt (3" Nominal Depth)	283	SqYd	\$3.24	\$916.92
29	Plans	Remove and Salvage Existing Holding Position Sign	1	Each	\$216.00	\$216.00
30	Plans	Remove, Salvage, and Reset Vegetation Control Ring	70	Each	\$32.40	\$2,268.00
31	Plans	Remove, Salvage, and Reset Taxiway Reflector	8	Each	\$32.40	\$259.20
32	Plans	Raise Base Mount Runway / Taxiway Light (=1")	3	Each	\$280.80	\$842.40
33	Plans	Raise Base Mount Runway / Taxiway Light (=2")	2	Each	\$280.80	\$561.60
34	Plans	Raise Base Mount Runway / Taxiway Light (=3")	9	Each	\$280.80	\$2,527.20
35	Plans	Raise Base Mount Runway / Taxiway Light (=4")	6	Each	\$280.80	\$1,684.80
36	Plans	Raise Base Mount Runway / Taxiway Light (=5")	4	Each	\$280.80	\$1,123.20
37	Plans	Raise Base Mount Runway / Taxiway Light (=6")	3	Each	\$280.80	\$842.40
38	Plans	Raise L-867 Junction Box (16" Diameter)	3	Each	\$394.20	\$1,182.60
39	Plans	Raise Electrical Manhole	2	Each	\$226.80	\$453.60
40	Plans	Asphalt Concrete Composite	50.0	Ton	\$253.80	\$12,690.00
41	Plans	Underdrain Outlet Structure	1	Each	\$243.00	\$243.00
42	Plans	Reflectorized Holding Position Sign	1	Each	\$2,001.24	\$2,001.24
43	Plans	High Flow Silt Fence	30	Ft	\$5.40	\$162.00
44	Plans	Type II Erosion Control Blanket	5,900	SqYd	\$1.88	\$11,092.00
<b>Total Bid Schedule B</b>						<b>\$1,765,119.92</b>

Bidding & Negotiations	\$4,910.00
Construction Administration	\$53,560.00
Construction Engineering	\$203,995.00
Estimated Concrete Testing	\$60,000.00
Administration	\$52,415.08
<b>Total Project Costs</b>	<b>\$2,140,000.00</b>



## **Project Narrative**

The current Runway 14/32 at the Platte Municipal Airport was constructed in 1997 of 9" of subbase course, 6" of base course and 2 1/2" of asphalt. In 2008, the PCI for the runway was a 77 which is considered very good condition. The 2012 PCI for the runway was a 70 which is considered to be good condition. The 2015 PCI for the runway fell to 40. The pavement distresses range from longitudinal and transverse cracking, slippage cracking, depressions, and swells. The pavement is beyond basic maintenance repair and is need of a reconstruction.

COST SUMMARY

REDFIELD MUNICIPAL AIRPORT

LAND ACQUISITION (DAVID NELSON PROPERTY), WILDLIFE HAZARD SITE VISIT (WHSV), WILDLIFE  
HAZARD MANAGEMENT PLAN (WHMP)

LAND APPRAISAL (SHAYKETT APPRAISAL COMPANY, INC – NELSON PROPERTY)	\$2,500.00
LAND APPRAISAL REVIEW (SDDOT – NELSON PROPERTY)	\$2,500.00
LEGAL SURVEY (HELMS AND ASSOCIATES – NELSON PROPERTY)	\$3,500.00
LAND ACQUISITION ASSISTANCE (HELMS AND ASSOCIATES – NELSON PROPERTY)	\$2,850.00
LEGAL FEES (GILLETTE LAW OFFICE, PC – NELSON PROPERTY)	\$6,237.75
LAND ACQUISITION (NELSON PROPERTY)	\$521,410.35
COSTS FOR REMOVAL OF LAND FROM CRP	\$14,000.00
CLOSING COSTS, TITLE INSURANCE, RECORDING FEES (NELSON PROPERTY)	\$8,000.00
WHSV AND WHMP	\$11,900.00
ADMINISTRATIVE COSTS	\$7,101.90
<hr/>	
TOTAL PROJECT COST	\$580,000.00

## **Project Narrative**

### **Land Appraisals and Land Acquisition**

The purpose of the proposed federal action analyzed in the EA is that the Redfield Municipal Airport currently does not meet FAA recommendations and standards for wind coverage and runway length. The purpose also is that wildlife attractants such as wetlands exist on the airport very near runways, taxiways and other areas of aircraft operations.

The need is to enhance airport safety by taking actions that will:

- a) Meet FAA Standards and protect the people and property on the ground.
- b) Eliminate the possibility of future incompatible land uses in the RPZs and Departure Surfaces to the end of the RPZ limits.
- c) Reduce and/or eliminate wildlife attractants from airport property.

The Redfield Municipal Airport proposes to purchase approximately 90 acres of land for the construction of a new primary runway 17/35. The runway will be 75' wide and 3,500' long, allowing the Redfield Municipal Airport to meet FAA recommendations and standards for wind coverage and runway length. The Redfield Municipal Airport will also construct a 10' wildlife fence and fill wetlands.

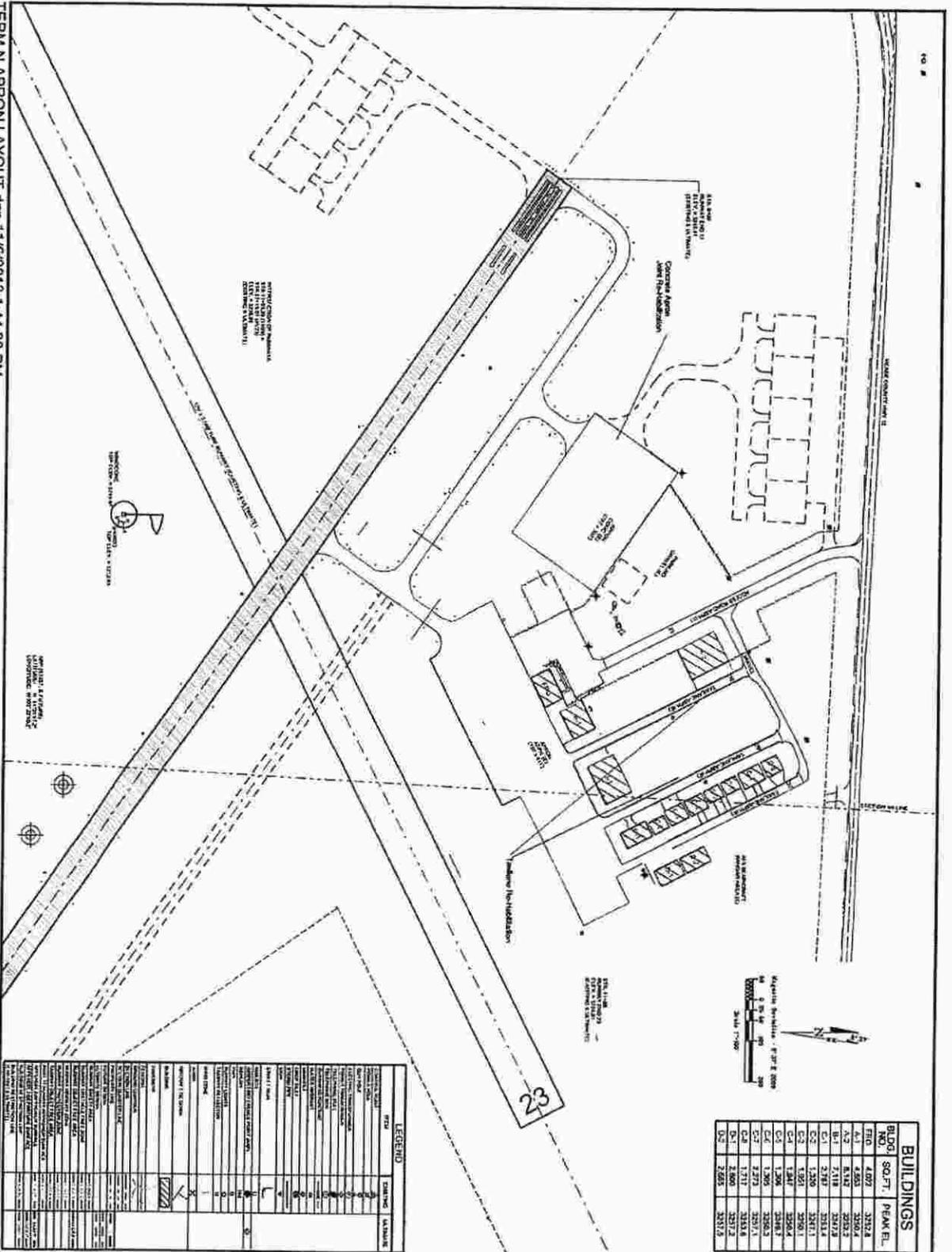
### **Wildlife Hazard Site Visit (WHSV) and Wildlife Hazard Management Plan (WHMP):**

During the Environmental Assessment, a Wildlife Hazard Assessment was completed. It identified several wetlands on the airport property and recommended that all wetlands be filled and/or modified. A recent wetland delineation identified up to 54 acres of wetlands on current and future property. The City of Redfield has hired a qualified airport biologist to study the wildlife attractiveness of the wetlands and make recommendations on which wetlands pose the greatest threat to attracting wildlife. The recommendations along with a management plan, will provide the City of Redfield with the potential to reduce the number of acres of wetlands to be modified and therefore in turn reduce the number of acres to be mitigated off-site.

Project Cost Breakdown  
 Sturgis Municipal Airport  
 250'x350' Concrete Apron Spall and Crack Repair  
 AIP 3-46-0054-013-2016

PROJECT DESCRIPTION	CONSTRUCTION COST	ENGINEERING COST	FEDERAL	STATE	LOCAL
Concrete Apron Spall and Crack Repair	\$ 111,748.70		\$ 100,573.83	\$ 5,587.44	\$ 5,587.44
Design Engineering		\$ 16,973.36	\$ 15,276.02	\$ 848.67	\$ 848.67
Construction Administration		\$ 4,290.50	\$ 3,861.45	\$ 214.53	\$ 214.53
Resident Engineering Inspection		\$ 3,646.10	\$ 3,281.49	\$ 182.31	\$ 182.31
<b>TOTAL</b>	\$ 111,748.70	\$ 24,909.96	\$ 122,992.79	\$ 6,832.93	\$ 6,832.93

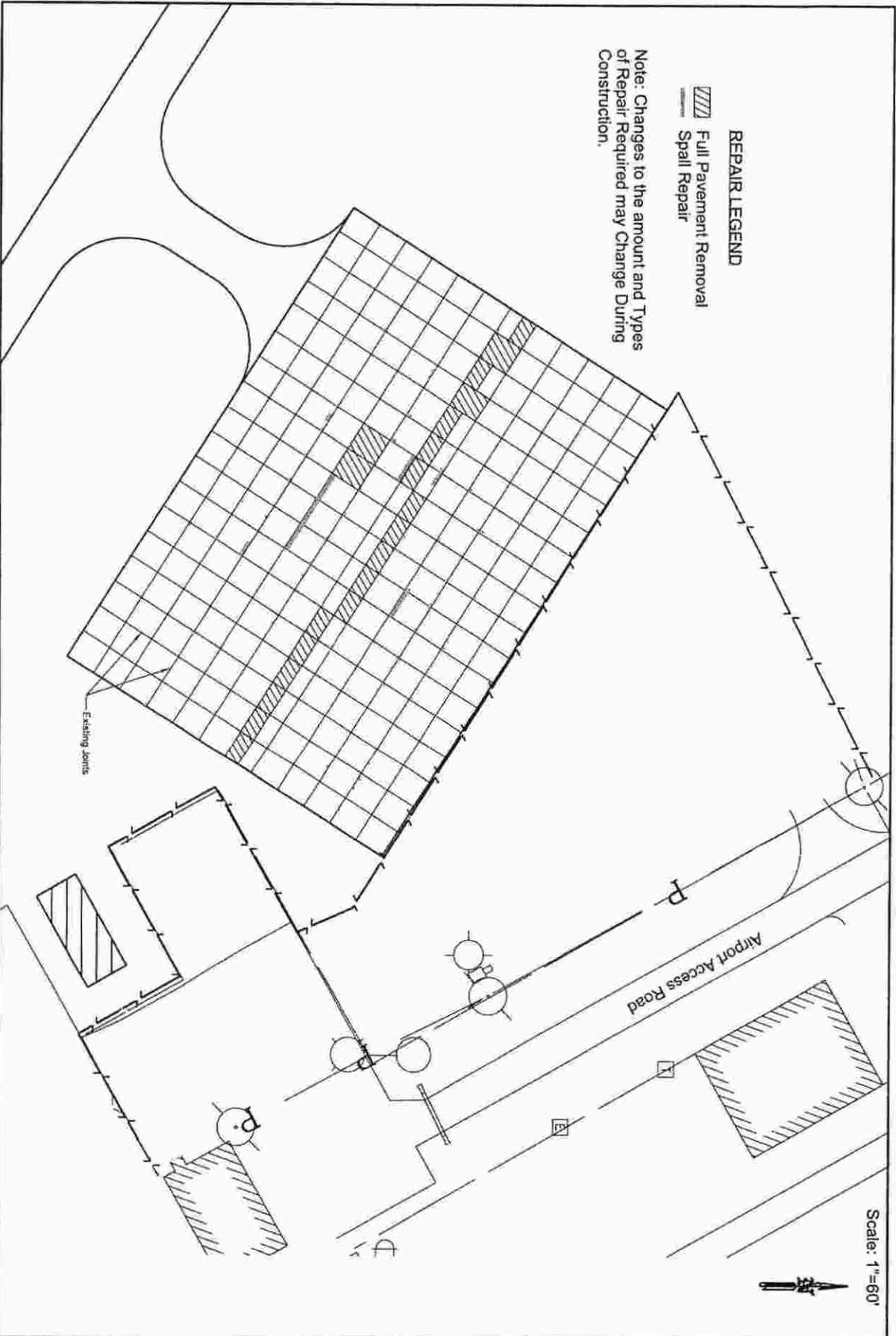
AVAILABLE CARRYOVER G.A. ENTITLEMENTS	\$491,969.00
PROJECTED 2016 G.A. ENTITLEMENT	\$150,000.00
<b>TOTAL G.A. ENTITLEMENT AVAILABLE FOR 2016</b>	<b>\$600,000.00</b>



BUILDINGS		
BLDG NO.	SQ. FT.	PEAK EL.
101	4,077	3,915.2
102	4,855	3,915.2
103	6,142	3,915.2
104	2,142	3,915.2
105	1,350	3,915.1
106	1,951	3,915.1
107	1,947	3,915.4
108	1,306	3,915.7
109	1,305	3,915.3
110	2,273	3,915.1
111	1,711	3,915.8
112	2,800	3,917.2
113	2,855	3,917.2

LEGEND		
ITEM	EXISTING	NEW
1	[Symbol]	[Symbol]
2	[Symbol]	[Symbol]
3	[Symbol]	[Symbol]
4	[Symbol]	[Symbol]
5	[Symbol]	[Symbol]
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100	[Symbol]	[Symbol]

<p>STURGIS AIRPORT LAYOUT PLAN EXISTING, PLANNED, AND PROPOSED</p>		<p>DATE: 11/6/2013 DRAWN BY: [Name] CHECKED BY: [Name]</p>	
<p>PROJECT NO.: 509-0710</p>		<p>SCALE: 1" = 40'</p>	
<p>7 of 13</p>		<p>APRIL 2014</p>	



**REPAIR LEGEND**

Full Pavement Removal

Spall Repair

Note: Changes to the amount and Types of Repair Required may Change During Construction.

Scale: 1"=60'



SHEET DESCRIPTION: Apron Repair Layout

PROJECT NAME: Sturgis Airport Apron Repair

PROJECT NO: S18-S719

REVISION	DATE
1	xxxx/xx
2	
3	
4	

DESIGNED BY: TJG

DRAWN BY: JBT

DATE PRINTED: 06/07/18

Project Justification

Sturgis Municipal Airport

Sturgis, South Dakota

Grant Number AIP-3-46-0054-13-2016

2016 Construction

The City of Sturgis is requesting a concrete spall repair and crack repair on various joints located on the existing 250'x350' concrete apron. There are various joints spread throughout the apron that have spalled out in various sized chunks with one joint showing a parallel crack along the entire 350' width. Some of the joints could be fixed by a simple spall repair technique and would be a justified improvement. There will be some concrete removal necessary for repair of the main crack

A sketch of the areas for construction is enclosed within this CIP.

Projected City of Sturgis Federal Entitlements will be in the amount of \$600,000 in FY2016 and are considered adequate for this project.

# Helms

## ASSOCIATES

CIVIL ENGINEERS & LAND SURVEYORS

221 Brown County Hwy 19  
P.O. Box 111  
Aberdeen, SD 57402

Phone (605) 225-1212 Fax (605) 225-3189  
Email operations@helmsincengineering.com

**CROSS-WIND RUNWAY & HANGAR TAXILANE REHABILITATION  
WAGNER MUNICIPAL AIRPORT  
WAGNER, SOUTH DAKOTA  
AIP #3-46-0057-012-2016**

A-6144  
**REVISED ENGINEER'S ESTIMATE  
JUNE, 2016**

**Base Bid**

Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$28,300.00	\$28,300.00
2	GP-50	Construction Staking	1	L.S.	\$18,500.00	\$18,500.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$10,250.00	\$10,250.00
4	P-101	Concrete Pavement Removal	220	SqYd	\$10.00	\$2,200.00
5	P-101	Asphalt Pavement Removal	1,042	SqYd	\$6.00	\$6,252.00
6	P-152	Unclassified Excavation	12,892	CuYd	\$3.50	\$45,122.00
7	P-152	Disposal of Excess Material	273	CuYd	\$2.90	\$791.70
8	P-152	On-Site Borrow Material	13,141	CuYd	\$5.10	\$67,019.10
9	P-154 (MOD)	Subbase Course	1,910.0	Ton	\$16.80	\$32,088.00
10	P-208 (MOD)	Aggregate Base Course	380.0	Ton	\$24.60	\$9,348.00
11	P-403	Bituminous Base Surface Course	182.0	Ton	\$112.20	\$20,420.40
12	P-602	Bituminous Prime Coat	1.5	Ton	\$1,800.00	\$2,700.00
13	P-603	Bituminous Tack Coat	0.4	Ton	\$640.00	\$256.00
14	P-610	Structural Portland Cement Concrete	220	SqYd	\$85.00	\$18,700.00
15	P-620	Taxiway Painting	1	L.S.	\$4,050.00	\$4,050.00
16	D-701	12" PVC Storm Sewer	419	Ft	\$18.80	\$7,877.20
17	D-701	12" Flared End	1	Each	\$150.00	\$150.00
18	D-701	18" RCP Arch	274	Ft	\$39.00	\$10,686.00
19	D-701	18" RCP Arch Flared End	4	Each	\$540.00	\$2,160.00
20	D-701	Connect to Existing Storm Sewer	3	Each	\$300.00	\$900.00
21	D-705 (MOD)	4" Perforated Underdrain Pipe	1,051	Ft	\$7.00	\$7,357.00
22	D-705 (MOD)	4" Solid Underdrain Pipe	208	Ft	\$7.00	\$1,456.00
23	D-705 (MOD)	Underdrain Cleanout	9	Each	\$100.00	\$900.00
24	T-901	Seeding and Fertilizing	12.0	Acre	\$1,750.00	\$21,000.00
25	T-905	Topsoiling	5,877	CuYd	\$1.90	\$11,166.30
26	T-908	Mulching	10.4	Acre	\$330.00	\$3,432.00
27	TL-100	Field Laboratory	1	Each	\$4,000.00	\$4,000.00
28	SP-2	Geogrid	2,000	SqYd	\$2.95	\$5,900.00
29	SP-3	Geotextile Separator Fabric	1,292	SqYd	\$2.10	\$2,713.20
30	Plans	Remove and Salvage Existing Metal Turf Runway Marker	12	Each	\$20.00	\$240.00
31	Plans	Remove and Dispose of 12" CPP Storm Sewer and Flared	42	Ft	\$10.00	\$420.00
32	Plans	Cap 12" CPP Storm Sewer	1	Each	\$100.00	\$100.00
33	Plans	30" Storm Sewer Inlet w Frame and Grate and Concrete	2	Each	\$1,300.00	\$2,600.00
34	Plans	Underdrain Outlet Structure	1	Each	\$180.00	\$180.00
35	Plans	Runway Marker Cone	28	Each	\$80.00	\$2,240.00
36	Plans	High Flow Silt Fence	280	Ft	\$5.00	\$1,400.00
37	Plans	Inlet Protection	2	Each	\$190.00	\$380.00
38	Plans	9" Diameter Erosion Control Wattle	625	Ft	\$4.30	\$2,687.50
<b>Estimated Base Bid Total</b>						<b>\$355,942.40</b>
<b>Bidding &amp; Negotiations</b>						<b>\$ 4,107.77</b>
<b>Construction Administration</b>						<b>\$ 15,692.29</b>
<b>Construction Engineering</b>						<b>\$ 18,846.47</b>
<b>Estimated Asphalt Testing</b>						<b>\$ 8,000.00</b>
<b>Estimated Appraisals/Review Appraisals</b>						<b>\$ 45,000.00</b>
<b>Estimated Easement Acquisition</b>						<b>\$ 6,000.00</b>
<b>Estimated Administration</b>						<b>\$ 21,411.07</b>
<b>Estimated Project Total</b>						<b>\$ 475,000.00</b>

CROSS-WIND RUNWAY & HANGAR TAXILANE REHABILITATION  
WAGNER MUNICIPAL AIRPORT  
WAGNER, SOUTH DAKOTA  
AIP #3-46-0057-012-2016  
A-6144  
BID TABULATION  
6/28/2016

Base Bid					VanderPol Dragline, Inc. Mitchell, SD		Wagner Building & Supply Co. Wagner, SD		R.S. Halstead Corp Harrisburg, SD	
Item #	Spec #	Item Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	GP-105	Mobilization	1	L.S.	\$28,300.00	\$28,300.00	\$4,082.00	\$4,082.00	\$10,500.00	\$10,500.00
2	GP-50	Construction Staking	1	L.S.	\$18,500.00	\$18,500.00	\$22,449.00	\$22,449.00	\$15,000.00	\$15,000.00
3	S-100	Construction Safety Phasing Plan	1	L.S.	\$10,250.00	\$10,250.00	\$9,660.00	\$9,660.00	\$17,000.00	\$17,000.00
4	P-101	Concrete Pavement Removal	220	SqYd	\$10.00	\$2,200.00	\$36.75	\$8,085.00	\$10.00	\$2,200.00
5	P-101	Asphalt Pavement Removal	1,042	SqYd	\$6.00	\$6,252.00	\$4.65	\$4,845.30	\$10.00	\$10,420.00
6	P-152	Unclassified Excavation	12,892	CuYd	\$3.50	\$45,122.00	\$3.32	\$42,801.44	\$5.00	\$64,460.00
7	P-152	Disposal of Excess Material	273	CuYd	\$2.90	\$791.70	\$9.45	\$2,579.85	\$2.00	\$546.00
8	P-152	On-Site Borrow Material	13,141	CuYd	\$5.10	\$67,019.10	\$4.70	\$61,762.70	\$9.00	\$118,269.00
9	P-154 (MOD)	Subbase Course	1,910.0	Ton	\$16.80	\$32,088.00	\$17.75	\$33,902.50	\$14.00	\$26,740.00
10	P-208 (MOD)	Aggregate Base Course	380.0	Ton	\$24.60	\$9,348.00	\$36.25	\$13,775.00	\$24.00	\$9,120.00
11	P-403	Bituminous Base Surface Course	182.0	Ton	\$112.20	\$20,420.40	\$139.29	\$25,350.78	\$84.00	\$15,288.00
12	P-602	Bituminous Prime Coat	1.5	Ton	\$1,800.00	\$2,700.00	\$2,398.00	\$3,597.00	\$2,160.00	\$3,240.00
13	P-603	Bituminous Tack Coat	0.4	Ton	\$640.00	\$256.00	\$765.00	\$306.00	\$700.00	\$280.00
14	P-610	Structural Portland Cement Concrete	220	SqYd	\$85.00	\$18,700.00	\$78.00	\$17,160.00	\$30.00	\$6,600.00
15	P-620	Taxiway Painting	1	L.S.	\$4,050.00	\$4,050.00	\$4,180.00	\$4,180.00	\$6,000.00	\$6,000.00
16	D-701	12" PVC Storm Sewer	419	Ft	\$18.80	\$7,877.20	\$24.00	\$10,056.00	\$30.00	\$12,570.00
17	D-701	12" Flared End	1	Each	\$150.00	\$150.00	\$258.00	\$258.00	\$600.00	\$600.00
18	D-701	18" RCP Arch	274	Ft	\$39.00	\$10,686.00	\$48.75	\$13,357.50	\$65.00	\$17,810.00
19	D-701	18" RCP Arch Flared End	4	Each	\$540.00	\$2,160.00	\$635.00	\$2,540.00	\$650.00	\$2,600.00
20	D-701	Connect to Existing Storm Sewer	3	Each	\$300.00	\$900.00	\$140.00	\$420.00	\$150.00	\$450.00
21	D-705 (MOD)	4" Perforated Underdrain Pipe	1,051	Ft	\$7.00	\$7,357.00	\$7.00	\$7,357.00	\$9.00	\$9,459.00
22	D-705 (MOD)	4" Solid Underdrain Pipe	208	Ft	\$7.00	\$1,456.00	\$6.75	\$1,404.00	\$9.00	\$1,872.00
23	D-705 (MOD)	Underdrain Cleanout	9	Each	\$100.00	\$900.00	\$127.65	\$1,148.85	\$300.00	\$2,700.00
24	T-901	Seeding and Fertilizing	12.0	Acre	\$1,750.00	\$21,000.00	\$1,478.00	\$17,736.00	\$1,600.00	\$19,200.00
25	T-905	Topsailing	5,877	CuYd	\$1.90	\$11,166.30	\$11.25	\$66,116.25	\$5.00	\$29,385.00
26	T-908	Mulching	10.4	Acre	\$330.00	\$3,432.00	\$518.00	\$5,387.20	\$300.00	\$3,120.00
27	TL-100	Field Laboratory	1	Each	\$4,000.00	\$4,000.00	\$13,265.00	\$13,265.00	\$15,000.00	\$15,000.00
28	SP-2	Geogrid	2,000	SqYd	\$2.95	\$5,900.00	\$3.80	\$7,600.00	\$2.50	\$5,000.00
29	SP-3	Geotextile Separator Fabric	1,292	SqYd	\$2.10	\$2,713.20	\$2.85	\$3,682.20	\$4.00	\$5,168.00
30	Plans	Remove and Salvage Existing Metal Turf Runway Marker	12	Each	\$20.00	\$240.00	\$102.00	\$1,224.00	\$200.00	\$2,400.00
31	Plans	Remove and Dispose of 12" CPP Storm Sewer and Flared Ends	42	Ft	\$10.00	\$420.00	\$12.75	\$535.50	\$30.00	\$1,260.00
32	Plans	Cap 12" CPP Storm Sewer	1	Each	\$100.00	\$100.00	\$110.00	\$110.00	\$200.00	\$200.00
33	Plans	30" Storm Sewer Inlet w Frame and Grate and Concrete Apron	2	Each	\$1,300.00	\$2,600.00	\$2,090.00	\$4,180.00	\$3,300.00	\$6,600.00
34	Plans	Underdrain Outlet Structure	1	Each	\$180.00	\$180.00	\$346.00	\$346.00	\$600.00	\$600.00
35	Plans	Runway Marker Cone	28	Each	\$80.00	\$2,240.00	\$81.60	\$2,284.80	\$125.00	\$3,500.00
36	Plans	High Flow Silt Fence	280	Ft	\$5.00	\$1,400.00	\$10.25	\$2,870.00	\$4.50	\$1,260.00
37	Plans	Inlet Protection	2	Each	\$190.00	\$380.00	\$782.00	\$1,564.00	\$200.00	\$400.00
38	Plans	9" Diameter Erosion Control Wattle	625	Ft	\$4.30	\$2,687.50	\$8.25	\$5,156.25	\$4.00	\$2,500.00
<b>Total Base Bid</b>						<b>\$355,942.40</b>		<b>\$423,135.12</b>		<b>\$449,317.00</b>

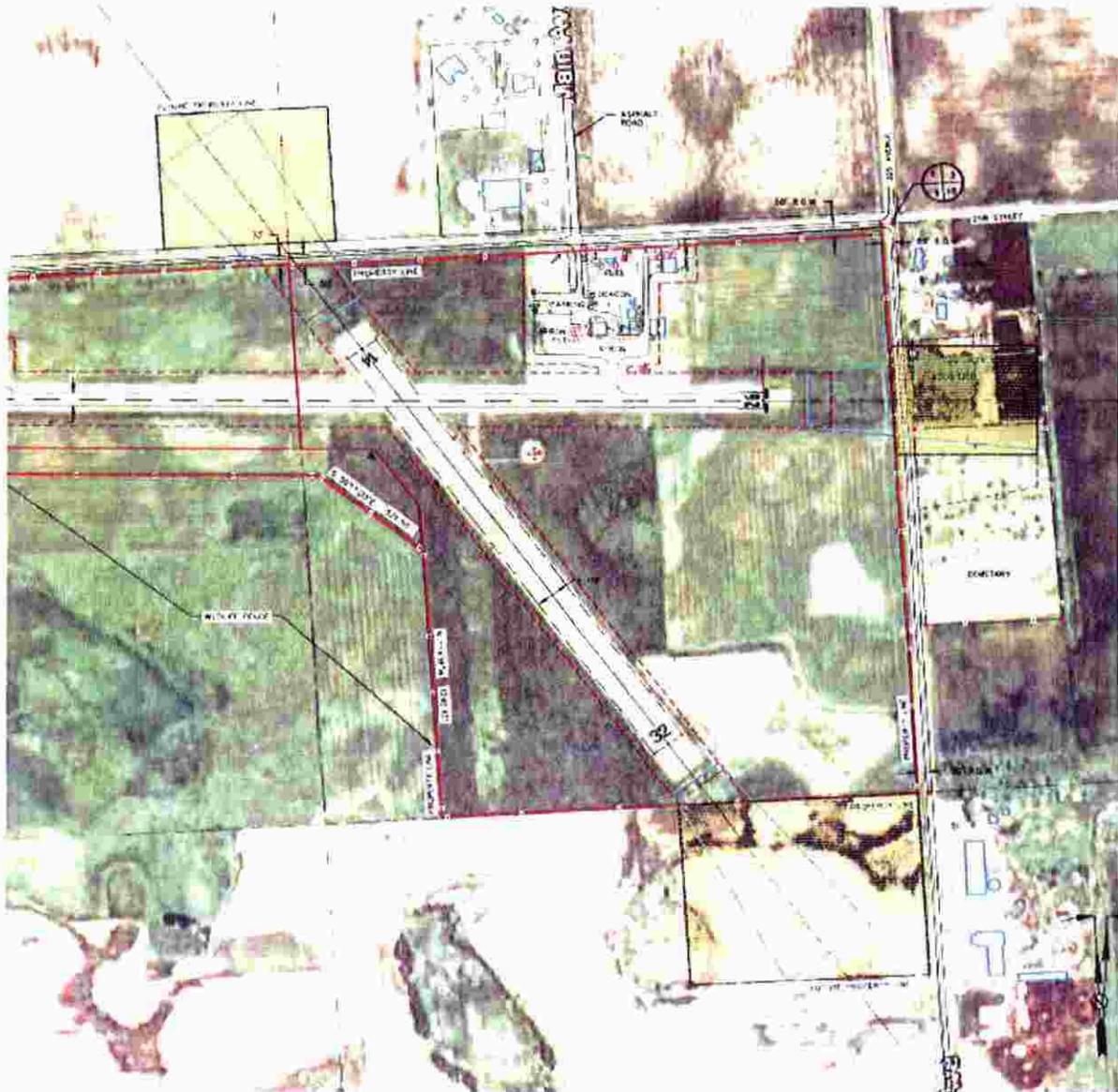
I HEREBY CERTIFY THAT THE FOREGOING IS AN ACCURATE REPRESENTATION AND TABULATION OF ALL BIDS RECEIVED AND THAT THE MATHEMATICS HAVE BEEN CHECKED AND IS TO THE BEST OF MY KNOWLEDGE CORRECT.

PROJECT ENGINEER: Michael A. Schindler DATE: 6-28-2016

**Project Sketch**

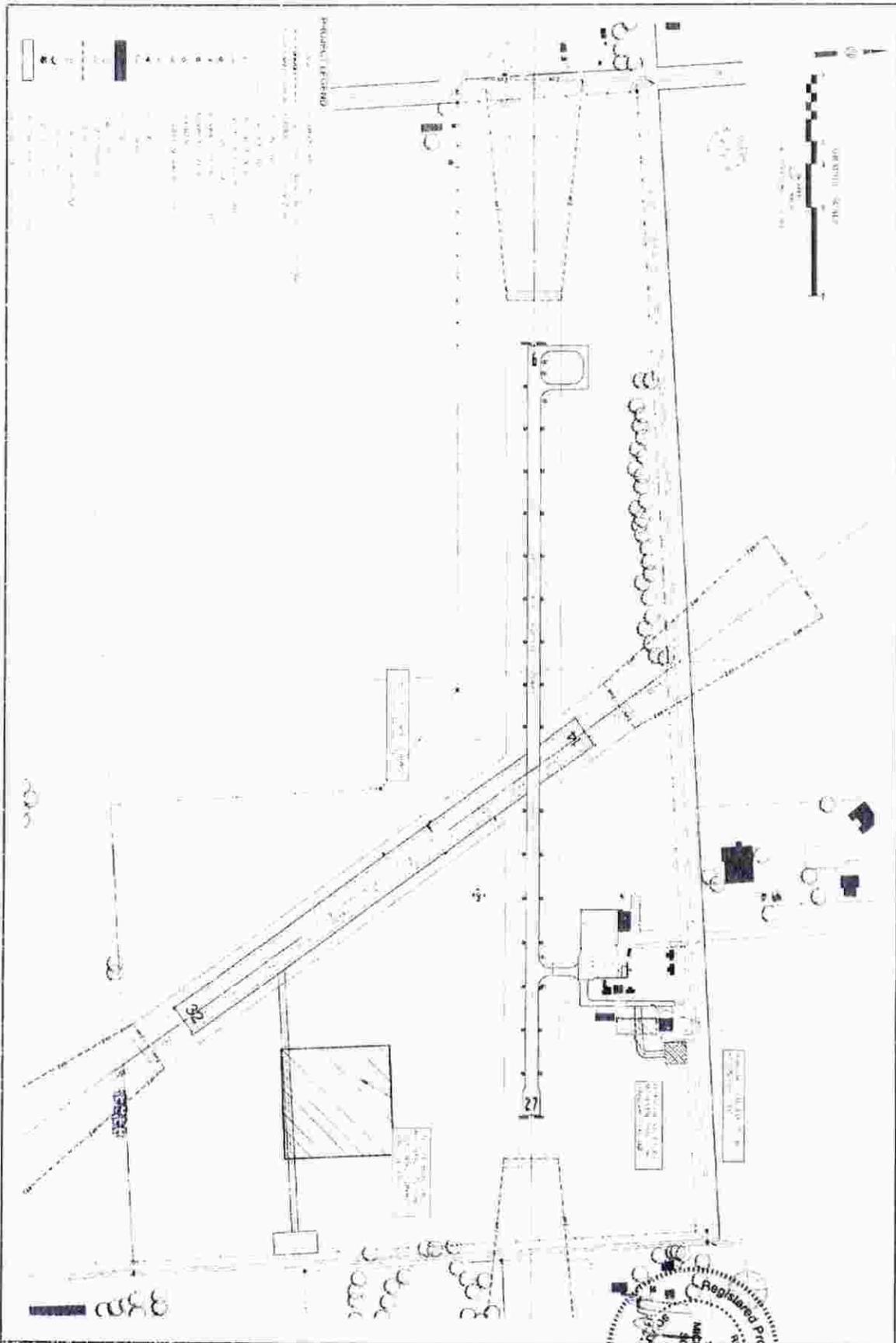
**WAGNER MUNICIPAL AIRPORT**

**WAGNER, SD**



**Project Description:**

Easement Acquisition for RPZ Protection (5.85 acres in Runway 14 RPZ and 7.07 acres in Runway 32 RPZ), appraisals, review appraisals



2  
 CONSTRUCTION LAYOUT PLAN  
 CROSS-WIND RUNWAY AND HANGAR  
 TAXIWAY REHABILITATION  
 WAGNER, SOUTH DAKOTA

DATE	11/11/11
BY	J.M.
CHKD BY	J.M.
APP. BY	J.M.
DATE	11/11/11

**Helms ASSOCIATES**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 221 Royal Court  
 Highway 28  
 P.O. Box 111  
 Aberdeen, S.D. 57501  
 Phone: 605-225-1212  
 Fax: 605-225-5104  
 Email: info@helmsassoc.com

Registered Professional Engineer  
 No. 11111  
 State of South Dakota  
 11/11/11

## **Project Narrative**

### **Land Acquisition for RPZ Protection (approximately 40 acres), Updated Exhibit A,**

The Environmental Assessment (EA) for the land acquisition and wildlife fence began in 2012. The EA was submitted to the Bismarck ADO in June 2013. The EA was published on July 10, 2013 and the FONSI was signed on August 21, 2013.

The purpose is to enhance safety and protect the Wagner Municipal Airport from incompatible land uses in the Runway Protection Zones (RPZ) as described by FAA Advisory Circular (AC) 150/5300-13, "Airport Design." The airport currently does not own all of the RPZs on the Runway 14, 26 and 32 ends. Currently, the Runway 8 end RPZ is on airport property and approximately 38.8 acres of land in the other RPZs are outside the control of the airport,  $\pm$  10.8 acres off the Runway 14 end,  $\pm$  7.2 acres off the Runway 26 end, and  $\pm$  20.8 acres off the Runway 32 end. The purpose is also that large animals, such as deer, have access to the airfield. FAA AC 150/5200-33 identifies deer as the most hazardous wildlife species to aircraft.

The need for this action is to meet FAA Advisory Circular (AC) 150/5300-13, Airport Design, standards for RPZs. The RPZ is trapezoidal and centered about the extended runway centerline. The RPZ's function is to enhance the protection of people and property on the ground. This need is best achieved through owner control over RPZs. Control is preferably exercised through the acquisition of sufficient property interest in the RPZs and includes clearing RPZs (and maintaining them clear) of incompatible objects and activities.

The City of Wagner has been negotiating the purchase of the RPZ for the turf crosswind runway. Through the negotiation process, both land owners expressed that they would be willing to negotiate an easement on the properties rather than selling the property. Therefore both RPZ for runway 14/32 will be protected by an easement preventing the construction of structures and planting of new trees.

### **Rehabilitate Turf Crosswind Runway and Reconstruct Hangar Taxilane**

The cross-wind runway needs to be reshaped. It has lost its crown and is a very rough surface for users to land on. The turf cross-wind runway is 150 feet wide and 2,228 feet long.

The current hangar taxilane was constructed in 1994 of 2" of P-401 on top of 12" P-208. The pavements at the Wagner Municipal Airport were evaluated in April of 2012 and the results indicate that the hangar taxilane to be reconstructed had a PCI of 60. The hangar taxilane will be reconstructed 25 feet wide and 360 feet long.

**Project Cost Breakdown**

WINNER REGIONAL AIRPORT

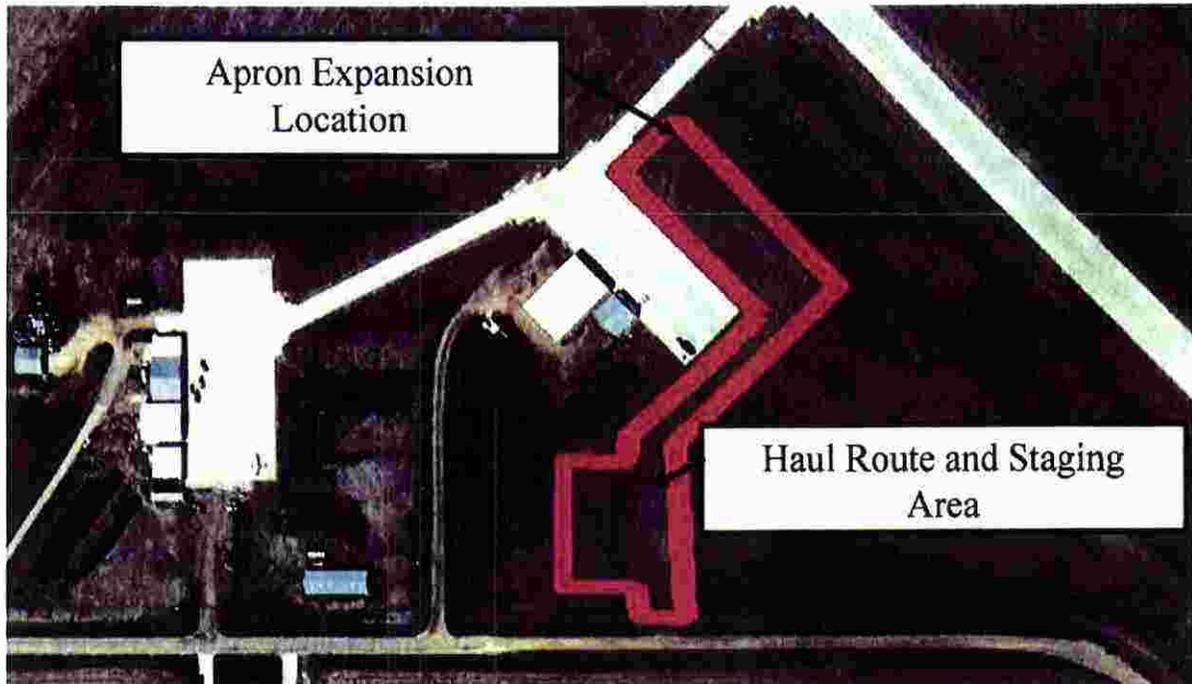
GEOTECHNICAL EXPLORATION AND DESIGN OF LOW APRON EXPANSION – PHASE I

DESIGN OF LOWER APRON EXPANSION – PHASE I	\$37,689.63
SOIL BORINGS	\$ 2,437.00
ADMINISTRATIVE COSTS	\$ 873.37
<hr/>	
TOTAL PROJECT COST	\$41,000.00

**Project Sketch**

**Winner Regional Airport**

**Winner, SD**



**Project Description:**

Geotechnical Exploration and Design of Lower Apron Expansion – Phase I

## **Project Narrative**

### **Geotechnical Exploration**

A geotechnical exploration of the Apron Expansion is required for the pavement design.

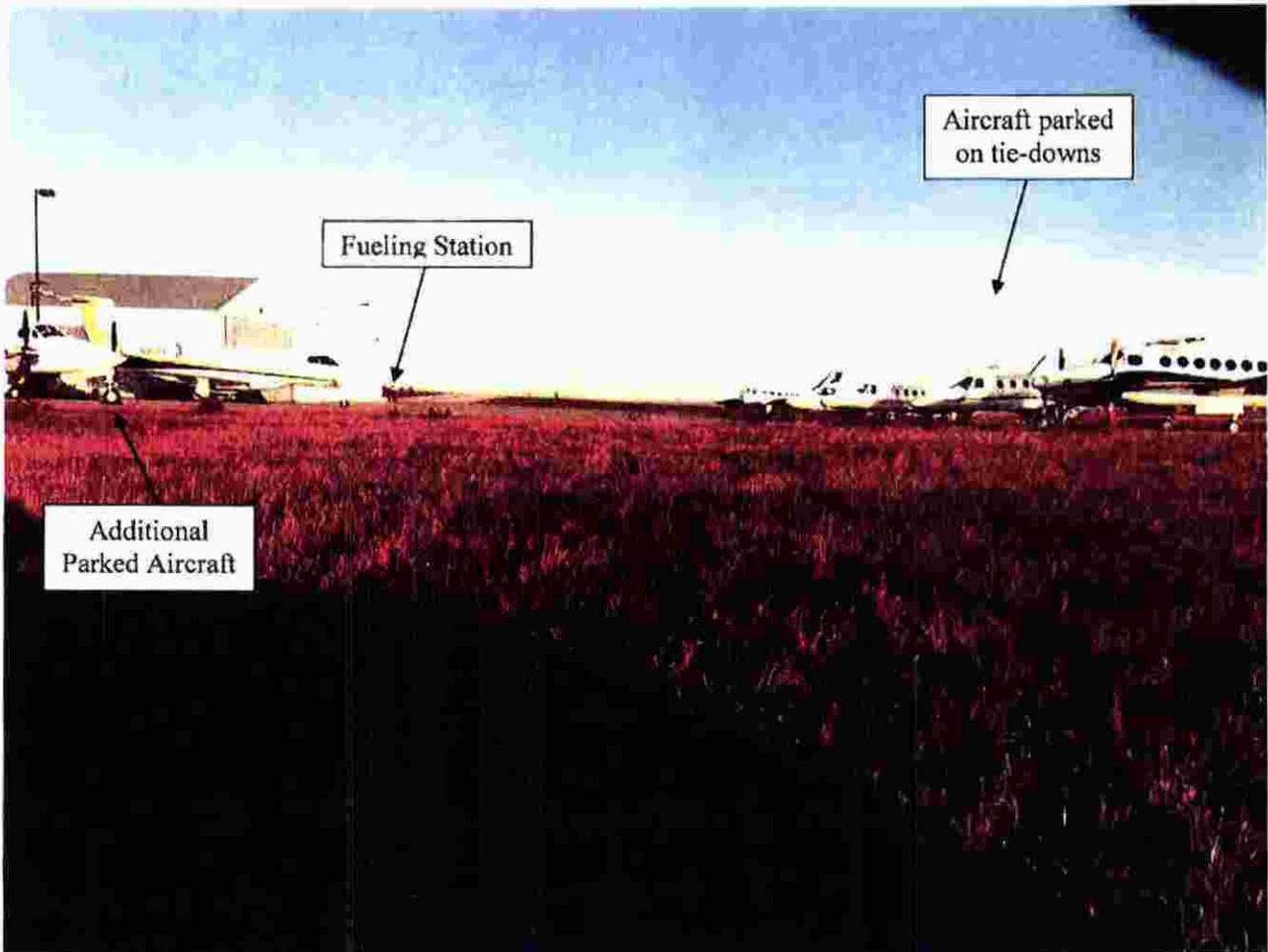
### **Lower Apron Expansion**

Apron expansion is needed to accommodate aircraft currently utilizing the airport. The existing apron was constructed in 2001 and approximately 60% of the annual operations have been itinerant. A total of 6,100 square yards of additional apron space is planned to be constructed. Phase I will consist of approximately 305' x 50' expansion to the northeast edge of the apron. Phase II will consist of approximately 100' x 200' expansion to the southeast edge of the apron. Phase III will be another expansion to the southeast edge of the apron approximately 100' x 200'. Associated items, such as markings, lighting, signs and tie-downs will also be constructed in each phase.

Currently, the apron is not adequate for the traffic trying to use it at the Winner Regional Airport. With the extension of the primary runway, the airport has continually received larger aircraft. It can be seen on the photo below (taken recently) that there is not adequate space for parked aircraft to be parked, fueling and to traverse through that location. An additional 50' on the northeast edge of the apron would allow for this scenario to occur safely.



The picture below from this year shows 5 aircraft parked on the northeast edge of the pavement and an additional 2 aircraft parked on the southwest edge of the pavement. The 5 aircraft are located on the current tie downs, however the 2 aircraft on the southwest are parked in front of the only available location for an FBO. If an FBO were to be constructed, those aircraft would have nowhere to park. Additionally, if an aircraft were parked to get fuel in the west corner of the apron (on the far side of the current hangars), 6 of the 7 aircraft shown would not be able to exit the apron and only a small aircraft would be able to enter the apron area.



The attached sheets are a record kept by the airport manager from 9/21/2015 to 11/3/2015 depicting most of the operations in that timeframe. Over 1,000 documented operations occurred in those 43 days. This is only a sampling of the operations of the airport, it is not a complete list of all operations in that time period.





Department of Transportation  
 Division of Secretariat  
 Office of Air, Rail & Transit  
 700 East Broadway Avenue  
 Pierre, South Dakota 57501-2586  
 OFFICE: 605/773-3574  
 FAX: 605/773-2804

TO: South Dakota Aeronautics Commission

FROM: Jennifer Boehm  
 Office of Air, Rail, and Transit

DATE: July 25, 2016

SUBJECT: State grant amendments

**Winner Municipal Airport AIP #3-46-0061-12-2013** – Extend Runway 13/31 from 4,500’ to 5,500’ and installation of associated lighting system.

The federal grant amount was increased to reflect final as-built measured quantities for construction. The state share must increase accordingly.

	<b>Federal (95%)</b>	<b>State (8%)</b>
Final project	\$2,456,866.58	\$218,388.14
Original grant	\$2,430,000.00	\$216,000.00
Change	\$26,866.58	\$2,388.14

**The Department recommends approval of a state grant amendment in the amount of \$2,388.14.**

**Sioux Falls Regional Airport AIP #3-46-0050-48-2014** – Rehabilitate east GA apron, taxiways and east cargo apron; Rehab taxiway A & A3; Rehab various access roads; Design engineering for the rehab of Taxiway B and for Runway 3/21 outside keels; and acquire snow blower

The federal grant amount was increased to reflect final as-built measured quantities for construction. The state share must increase accordingly.

	<b>Federal (95%)</b>	<b>State (8%)</b>
Final project	\$2,806,446.84	\$155,913.71
Original grant	\$2,732,635.00	\$151,813.06
Change	\$73,811.84	\$4,100.65

**The Department recommends approval of a state grant amendment in the amount of \$4,100.65.**

SUMMARY OF PROJECT COSTS		1.Proj. No. 3-46-0061-12-2013
3.Sponsors Name and Address CITY OF WINNER WINNER, SD		2.Grant No.
5.Official Name and Location of Airport WINNER MUNICIPAL AIRPORT PO BOX 691 WINNER, SD 57580-0691		4. Period Ending 07/25/2016
		6.MaxFed.Funds \$2,456,866.58
DESCRIPTION	LATEST REVISED TOTAL ESTIMATED COST	ACTUAL COST INCURRED TO DATE
I. LAND: NA		
II. CONSTRUCTION: Upper Plains Construction		
A. Base Bid & Alt. #1 (Wildlife Fence) w/CCO #	\$2,473,561.18	\$2,473,561.18
TOTAL CONSTRUCTION	\$2,473,561.18	\$2,473,561.18
III. ENGINEERING - Helms & Associates		
A. Design-paid in 11-2012 grant		
B. Bidding-paid in 11-2012 grant		
C. Const. Admin.	\$67,043.86	\$84,016.72
D. Inspection	\$202,378.12	\$172,273.86
F. Testing		
TOTAL ENGINEERING	\$269,421.98	\$256,290.58
IV. ADMINISTRATION		
TOTAL PROJECT COST	\$0.00	\$0.00
FEDERAL SHARE-90% w/Amend #1	\$2,742,983.16	\$2,729,851.76
STATE SHARE-8% w/Max \$216,000.00	\$2,456,866.58	\$2,456,866.58
LOCAL SHARE-2%	\$216,000.00	\$218,388.14
	\$70,116.58	\$54,597.04
<b>State Amendment Needed</b>	<b>\$2,388.14</b>	
7.CERTIFICATION:		
DATE:	PREPARED BY:	
SCOPE: Extend Runway 13/31 from 4,500' to 5,500' and installation of associated lighting system.		

SUMMARY OF PROJECT COSTS		1.Proj. No. 3-46-0050-48-2014
3.Sponsors Name and Address SIOUX FALLS REGIONAL AIRPORT AUTHORITY		2.Grant No.
5.Official Name and Location of Airport SIOUX FALLS REGIONAL AIRPORT 2801 JAYCEE LANE SIOUX FALLS, SD 57104-0196		4. Period Ending 07/25/2016
		6.MaxFed.Funds \$2,732,635.00
DESCRIPTION	LATEST REVISED TOTAL ESTIMATED COST	ACTUAL COST INCURRED TO DATE
I. EQUIPMENT:		
Rotary Snow Blower	\$545,900.00	\$545,900.00
II. CONSTRUCTION: Asphalt Surfacing Co. w/CCO #1-5		
Roads, Twy A + A3 & Aprons Rehab	\$2,096,937.29	\$2,178,264.76
Less Ineligible FedEx Apron Expansion and Economy Parking Lot costs	(\$91,497.60)	(\$91,497.60)
<b>TOTAL CONSTRUCTION</b>	<b>\$2,005,439.69</b>	<b>\$2,086,767.16</b>
III. ENGINEERING: Goldsmith & Heck w/KLJ as Sub		
Roads, Twy A & Taxilanes Rehab-Design	\$89,521.00	\$89,521.00
Roads, Twy A & Taxilanes Rehab-CA w/Amend #	\$216,534.00	\$215,321.84
Less Ineligible FedEx Apron Expansion	(\$8,008.00)	(\$8,008.00)
SRE Procurement (Blower)	\$11,978.00	\$11,978.00
Testing-AET Testing for Roads, Twy A & Taxilane:	\$16,155.00	\$13,958.00
Rnwy 3/21 Reconst. & Txwy B Rehab-Design	\$160,498.00	\$160,498.00
<b>TOTAL ENGINEERING</b>	<b>\$486,678.00</b>	<b>\$483,268.84</b>
III. ADMINISTRATION	\$2,338.27	\$2,338.27
<b>TOTAL PROJECT COST</b>	<b>\$3,040,355.96</b>	<b>\$3,118,274.27</b>
FEDERAL SHARE-90% w/Max \$2,732,635	\$2,732,635.00	\$2,806,446.84
<b>STATE SHARE-5% w/Max \$151,813.06</b>	<b>\$151,813.06</b>	<b>\$155,913.71</b>
LOCAL SHARE-5%	\$155,907.90	\$155,913.71
<b>State Amendment Needed</b>	<b>\$4,100.65</b>	
CERTIFICATION:		
DATE:	PREPARED BY:	
SCOPE: Rehab East GA Apron and Taxiways and East Cargo Apron; Rehab Taxiway A & A3; Rehab various access roads; Design Engineering for the Rehab of Taxiway B and for Runway 3/21 outside Keels; and acquire Snow Blower.		