



 3561 Whitewood Rd. Box 636
 Sturgis, SD 57785
 PH: 605.347.2722
 ARCHITECTURE ENGINEERING SURVEYING

SHEET DESCRIPTION: PROJECT SKETCH
PROJECT NAME: BELLE FOURCHE MUNICIPAL AIRPORT

Belle Fourche Municipal Airport

Belle Fourche, South Dakota

Grant Number 3-46-0072-012-2019

2019 Access Road/Parking Area Pavement Project

The City of Belle Fourche is requesting consideration for a project to complete a resurfacing project for the airport access road and parking areas.

The existing pavement was placed back in 1985. The pavement has severe transverse and longitudinal cracking throughout. There are several larger areas of alligator type cracking and total pavement failure. The condition of the surfacing is such that it warrants a total removal and replacement.

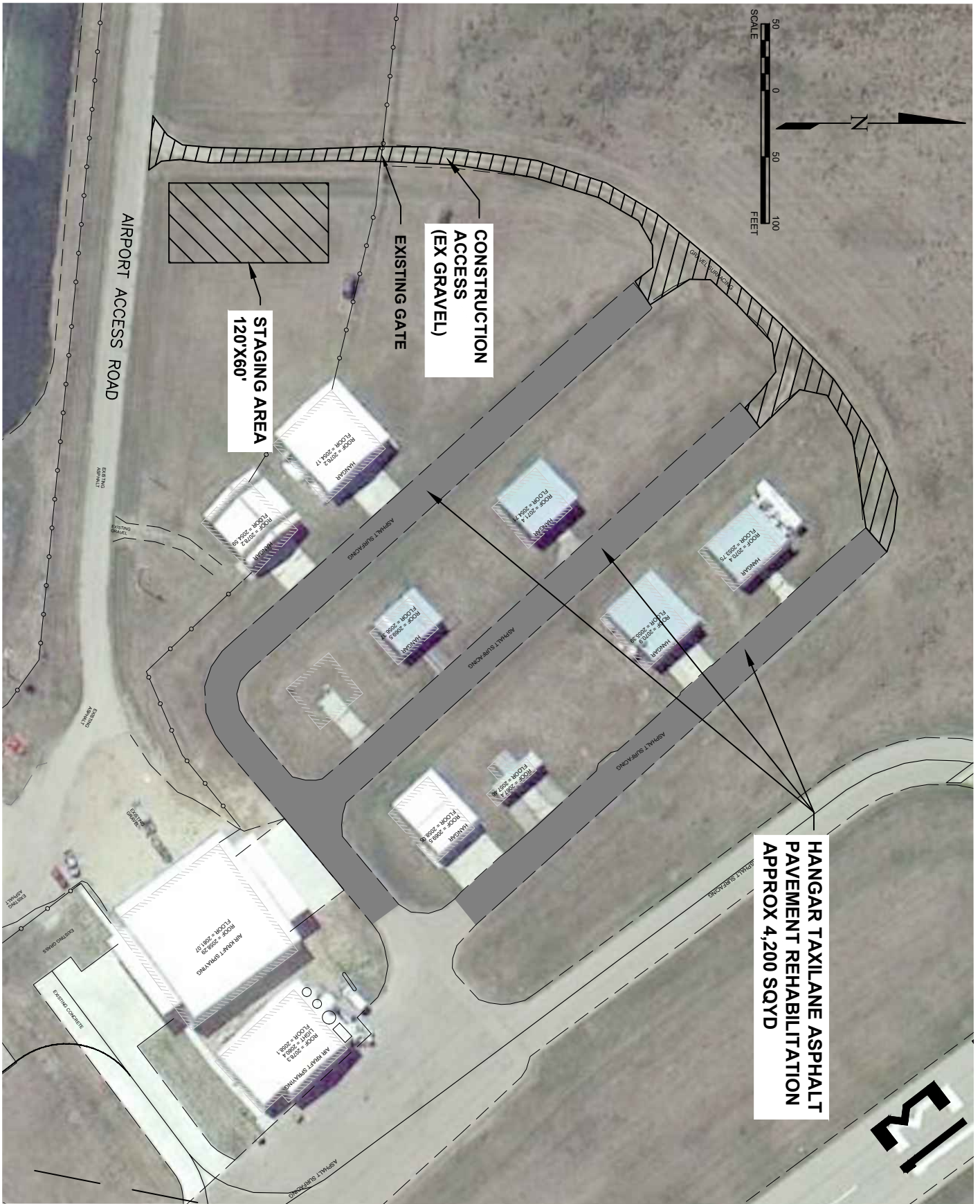
The project would consist of the full depth reclamation of the existing asphalt and granular material, recompaction of the material, reconstructing the areas where the base and subgrade have failed, and then paving the access road and parking areas with a 3" asphalt surfacing layer. The access road would be paved from the Hwy 85 ROW line to the existing GA Apron. The first 200' from the highway would be non-participating due to the private residence on the south side of the access road. In addition to the access road, the entire parking area on the north side of the road (62'x100') and a portion of the parking area south of the road (20'x110') would be paved.

A CATEX was approved by FAA on 2/27, 2018.

It is estimated that to complete the project, approximately \$217,755 in AIP funds will be needed.

Projected Belle Fourche Federal Entitlements will be in the amount of \$341,040.00 in FY2019 and are estimated as adequate for the 2019 project.

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



HANGAR TAXILANES REHABILITATION
 GETTYSBURG MUNICIPAL AIRPORT
 GETTYSBURG, SOUTH DAKOTA
 2019 GRANT PRE-APPLICATION SKETCH

	GRANTED MDW
	REVIEWED MDW
	PROJECT NUMBER 11/12/18

Project Narrative (Justification)
2019 FAA Grant Pre-Application
Gettysburg Municipal Airport

Project Item

Hangar Taxilanes Pavement Rehabilitation

What is the Project?

The project will consist of pavement resurfacing for the three hangar taxilanes (approx 1460' total length).

Why is the Project Needed Now?

The project is needed now as the existing taxilane pavements have 2018 PCI values of 39, 46, 46 & 39 (poor to very poor) and have outlived their useful life. There are continual FOD issues and frequent repairs are required to maintain the pavements.

Is the Project Phased?

No. The project will be designed and constructed in a single season with a single grant.

Total AIP Funds Expended?

\$242,086

Additional AIP Funds Needed to Complete Project?

None



3561 Whitewood Rd, Box 636
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Brosz
ENGINEERING, INC.
ARCHITECTURE ENGINEERING SURVEYING

SHEET DESCRIPTION: Project Sketch

PROJECT NAME: Harding County Airport SRE/Terminal Building

Project Justification

Harding County Airport

Buffalo, South Dakota

Grant Number AIP-3-46-0006-008-2019

Harding County is requesting consideration for the construction of a new Snow Removal Equipment/Terminal Building with this grant. In 2018, the airport received a grant (AIP 3-46-0006-007-2018) for the acquisition of Snow Removal Equipment. The airport currently does not have a building that would store the newly acquired SRE, nor do they have a facility where pilots would be able to use a restroom or relax after or before a flight.

The proposed building would be approximately 60'x32' and would be located adjacent to the GA Apron as indicated by the attached Sketch. The front 16' of the building would be the GA Terminal portion. The rear 44' of the building would be the storage area for the SRE.

Projected Harding County Federal Entitlements will be in the amount of \$ 528,269.00 in FY2019 and are considered adequate for this project. (See Engineers Estimate Attached)

Project Sketch

Mobridge Municipal Airport
Mobridge, South Dakota



Project Description

Replace Runway 12-30 PAPIs and Flight Check

Project Narrative (Justification)

2019 FAA Grant Application

Mobridge Municipal Airport

Project Item

Replace Runway 12-30 PAPIs and Flight Check

What is the Project?

The project is for construction of replacement of the Runway 12-30 PAPIs. Also included is the flight check for the Runway 12-30 PAPIs & MIRL system.

Why is the Project Needed Now?

The project is needed now as the existing Runway 12-30 PAPIs are more than 25 years old and have outlived their useful life. Frequent repairs are required to maintain the PAPIs. Replacement of the PAPIs is necessary to maintain a reliable system.

Is the Project Phased?

Yes. This second phase of the project is to complete the construction of the replacement of the Runway 12-30 PAPIs. The first phase was to design the project which was accomplished in calendar year 2018.

AIP Funds Requested

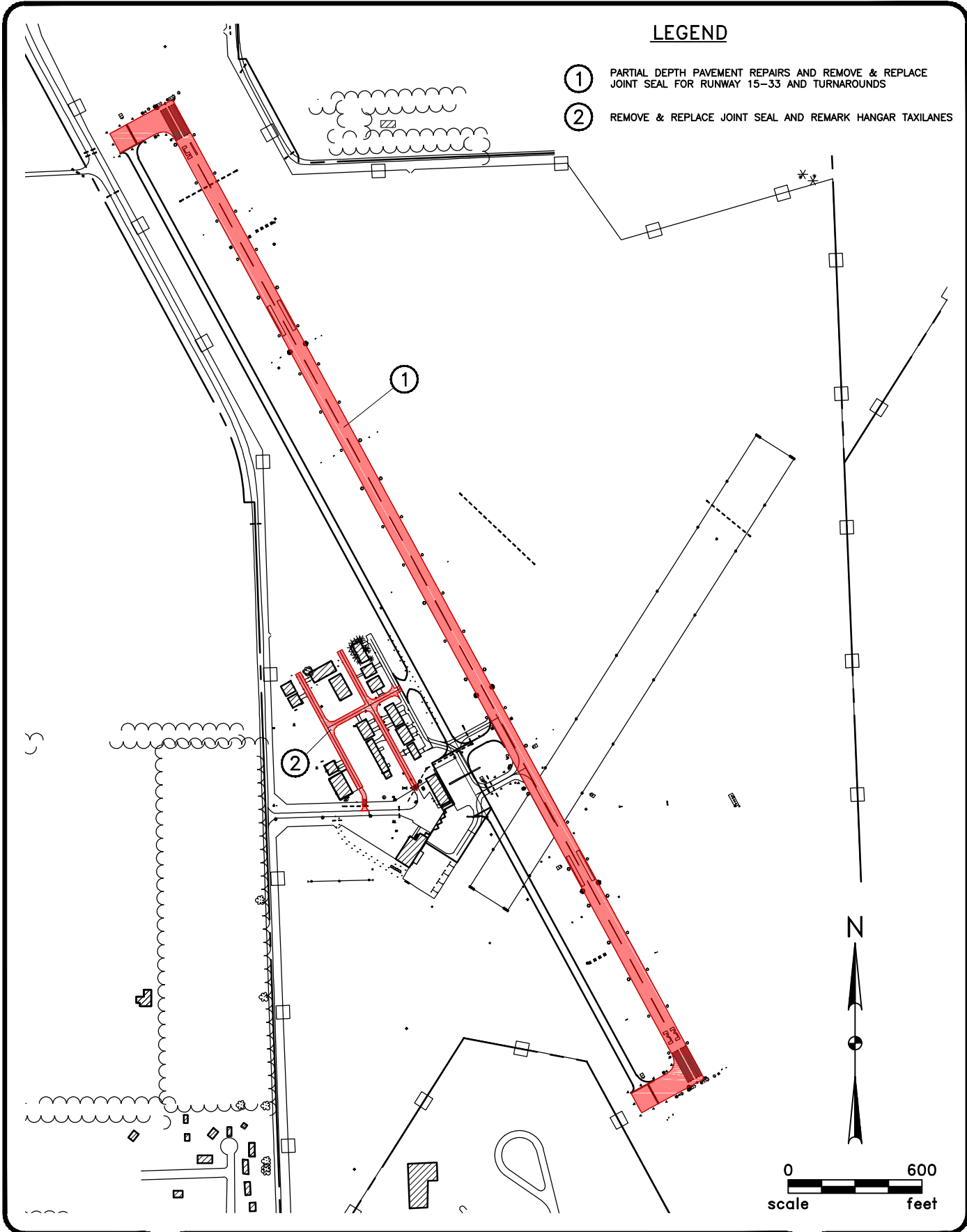
\$77,814.00

Additional AIP Funds Needed to Complete Project?

None.

LEGEND

- ① PARTIAL DEPTH PAVEMENT REPAIRS AND REMOVE & REPLACE JOINT SEAL FOR RUNWAY 15-33 AND TURNAROUNDS
- ② REMOVE & REPLACE JOINT SEAL AND REMARK HANGAR TAXILANES



DRAFTED BY: JJB
REVIEWED BY: JJB
PROJECT NO:
REVISED DATE: 06/18/2019

**MADISON MUNICIPAL AIRPORT
2019 GRANT APPLICATION SKETCH**



Madison Municipal Airport – Madison, SD
Project Narrative
AIP #3-46-0029-017-2019

- **Partial Depth Pavement Repairs and Remove & Replace Joint Seal for Runway 15-33 and Turnarounds.**
- **Remove & Replace Joint Seal and Remark Hangar Taxilanes.**

The City of Madison is requesting financial assistance for above described project. The runway was constructed in 2004. The hangar taxilanes were constructed in 2011. The joint sealant has deteriorated over time and is need of removal and replacement. There is also corner spalling that needs partial depth repairs. Airfield markings for the hangar taxilanes are deteriorated and need remarking. The work includes remove & replace joint sealant, partial depth repairs and remarking. Project includes design, bidding, construction administration & observation and FAA closeout report services.

PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: AIP #3-46-0034-016-2019
AIRPORT: Milbank Municipal Airport
1. Objective: <p>The City of Milbank is pursuing the purchase of approximately 22 acres of land for the Runway 13/31 RPZ/Departure Surfaces. The FAA requires that airport sponsors maintain a safe operating environment which includes conducting a WHSV and WHMP when necessary. The Milbank Municipal Airport has not had either a WHSV or a WHMP completed and plans to hire a qualified wildlife biologist to complete both tasks.</p>
2. Benefits Anticipated: <p>The land appraisals and acquisition are necessary to ensure compatible land use by keeping incompatible land uses from being constructed there and to maintain clear approaches.</p>
3. Approach: (See approved Scope of Work in Final Application) <p>Appraisals have been completed Counteroffers have been distributed Negotiations with the land owners Finalize purchase agreements Settlements with FAA Approval</p>
4. Geographic Location: <p>Milbank Municipal Airport Milbank, Grant County, South Dakota</p>
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number) <p>John Foreman, City Administrator 605-432-9575 1001 E. 4th Ave. #301 Milbank, SD 57252</p>

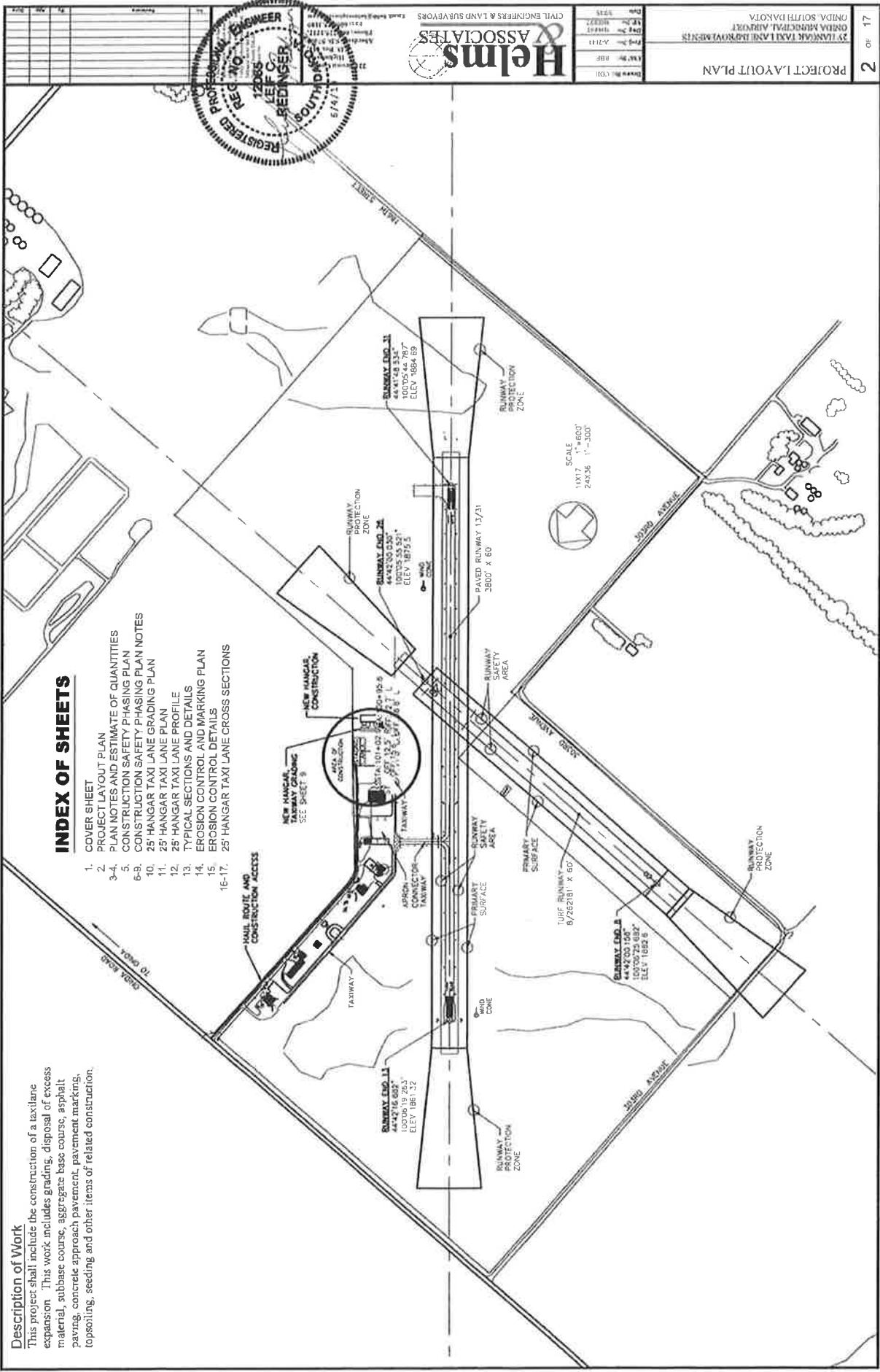
PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: AIP #3-46-0041-011-2019
AIRPORT: Onida Municipal Airport
1. Objective: Design, bidding & negotiations, construction administration, construction engineering, administration costs, and construction of hangar taxilane expansion
2. Benefits Anticipated: Aircraft will have direct pavement access from the newly constructed t-hangars.
3. Approach: (See approved Scope of Work in Final Application) Design hangar taxilane expansion Submit CSPP Submit Engineer's Design Report Advertise for Bids Construct hangar taxilane expansion
4. Geographic Location: Onida Municipal Airport Onida, Sully County, South Dakota
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number) Gary Wickersham, Mayor 605-258-2441 PO Box 72 Onida, SD 57564-0072

Description of Work
 This project shall include the construction of a taxi lane expansion. This work includes grading, disposal of excess material, subbase course, aggregate base course, asphalt paving, concrete approach pavement, pavement markings, topsoiling, seeding, and other items of related construction.

INDEX OF SHEETS

1. COVER SHEET
2. PROJECT LAYOUT PLAN
- 3-4. PLAN NOTES AND ESTIMATE OF QUANTITIES
5. CONSTRUCTION SAFETY PHASING PLAN
- 6-8. CONSTRUCTION SAFETY PHASING PLAN NOTES
10. 25' HANGAR TAXI LANE GRADING PLAN
11. 25' HANGAR TAXI LANE PLAN
12. 25' HANGAR TAXI LANE PROFILE
13. TYPICAL SECTIONS AND DETAILS
14. EROSION CONTROL AND MARKING PLAN
15. EROSION CONTROL DETAILS
- 16-17. 25' HANGAR TAXI LANE CROSS SECTIONS

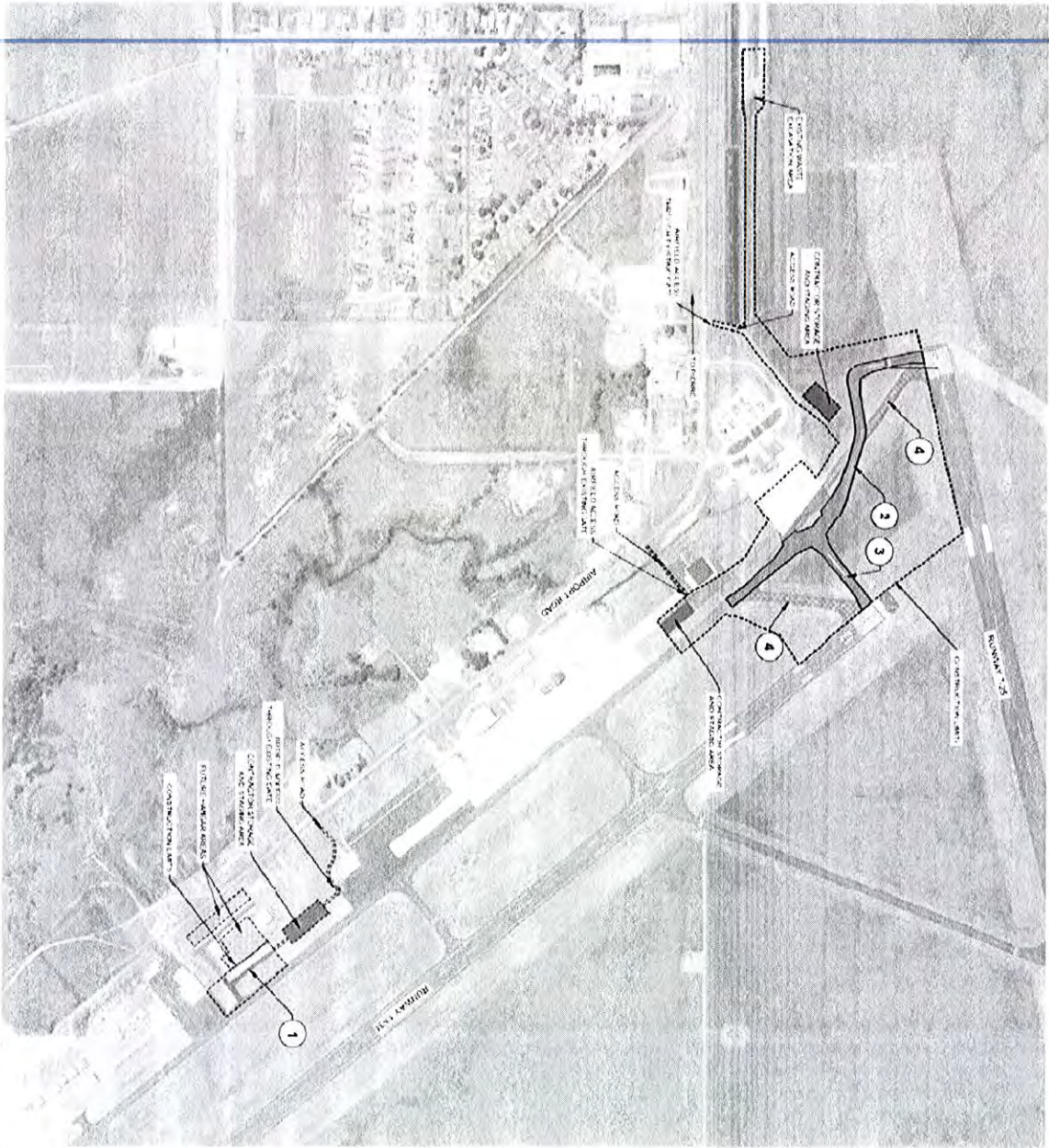


Helm Associates
 CIVIL ENGINEERS & LAND SURVEYORS
 2200 E. 17th St., Suite 200
 Rapid City, SD 57701
 Phone: (605) 343-1111
 Fax: (605) 343-1112
 Email: info@helmassociates.com
 Website: www.helmassociates.com

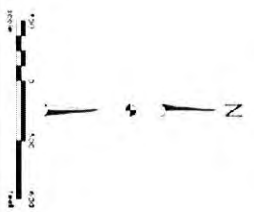
DATE	DESCRIPTION
08/20/17	ISSUED FOR PERMITS
08/20/17	ISSUED FOR CONSTRUCTION
08/20/17	ISSUED FOR RECORD

PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: Reconstruct Runway 7-25 and Taxiway C Design Engineering and Bidding Services
AIRPORT: Pierre Regional Airport
1. Objective: The 2015 Pavement Condition Index for Runway 7-25 was 70 and Taxiway C was 61 with both pavements significantly deteriorating during the past couple of years. Both pavements were constructed in 1998. This project would reconstruct the runway pavement utilizing a higher design weight and correct airfield geometry to include the Runway 7-25 vertical line of sight issue which will also impact the Taxiway C connection. Runway 7-25 would be narrowed from 150 feet to 100 feet. Reconstruction would also include the replacement of the Runway 7-25 lighting and signage system.
2. Benefits Anticipated: Increased aircraft ground movement safety and runway capacity.
3. Approach: (See approved Scope of Work in Final Application) This is a single phase project utilizing the traditional design, bid and build model. Runway and taxiway plans and specifications will be developed during the winter of 2019-2020 with a construction bid letting in the summer of 2020. Construction would be anticipated to be completed in the fall of 2021.
4. Geographic Location: Pierre Regional Airport - City of Pierre - County of Hughes - State of South Dakota
5. If Applicable, Provide Additional Information: This is not a Letter of Intent project.
6. Sponsor's Representative: (include address & telephone number) Mr. John Childs, PE - City Engineer - City of Pierre 2301 Patron Parkway Pierre, SD 57501 Telephone (605) 773-3056



- PROJECT WORK DESCRIPTION**
1. GENERAL MAINTENANCE AND REPAIR CONSTRUCTION
 2. TAXIWAY B RECONSTRUCTION AND ROAD IMPROVEMENT
 3. TAXIWAY A RECONSTRUCTION AND ROAD IMPROVEMENT
 4. TAXIWAY TO BE REMOVED



PRELIMINARY
NOT FOR
CONSTRUCTION

Project Narrative (Justification)

2019 FAA Grant Application

Sioux Falls Regional Airport

Project

Terminal Deicing & Remain Overnight (RON) Apron – Construction, CA/CO

South Terminal Apron Partial Pavement Replacement, East Cargo Apron Expansion – Design, Construction, CA/CO

What is the Project?

1. The following will be constructed in 2019 as a single bid package:
 - a. **Terminal Deicing & Remain Overnight (RON) Apron** –Construction of approximately 41,800 SY concrete deicing and RON apron including deicing collection system and edge lighting.
 - b. **South Terminal Apron Partial Pavement Replacement, East Cargo Apron Expansion** – Design and construction to replace approximately 2200 SY of concrete pavement on the south side of the Terminal Apron near Gate 1
 - c. **East Cargo Apron Expansion** – Design and construction of approximately 1400 SY of 16" PCC Pavement apron widening, relocation of taxiway edge lighting and apron markings.

Why is the Project Needed Now?

Terminal Deicing Apron – There are currently routine commercial service aircraft delays due to aircraft pushing back on terminal apron to deice and blocking apron taxiway for other aircraft. Constructing a separate deicing apron for use by the outer gates will eliminate routine delays. Automation of the deicing collection, storage and disposal system will reduce manual input required and risk of spill/violation to adjacent receiving stream and regulate discharge to sanitary sewer to control disposal fees.

RON Apron – Currently all 10 gate positions at the terminal apron are typically full overnight. In order to plan for future growth and the occasional mechanically grounded aircraft, additional aircraft overnight parking is required. The proposed RON Apron will provide remote aircraft parking for up to 2 – A320's or 3 – ERJ175's.

South Terminal Apron Partial Pavement Replacement – There is approx. 2200 SY of 1979 pavement remaining near Gate 1B that had a 2018 PCI of 10 (failed). The 40-year-old pavement is beyond its useful life and causes routine FOD issues. The remaining apron has all been reconstructed since 2000.

East Cargo Apron Expansion - Expansion the E Cargo Apron will allow the apron taxiway to be shifted west to accommodate a FedEx A300.

Is the Project Phased?

No.

Total AIP Funds Expended?

\$7,916,183 (Sponsor is requesting to multi-year the grant with 2019 and 2020 entitlement funds.)

Application for Federal Assistance (Development and Equipment Projects)

PART II – PROJECT APPROVAL INFORMATION

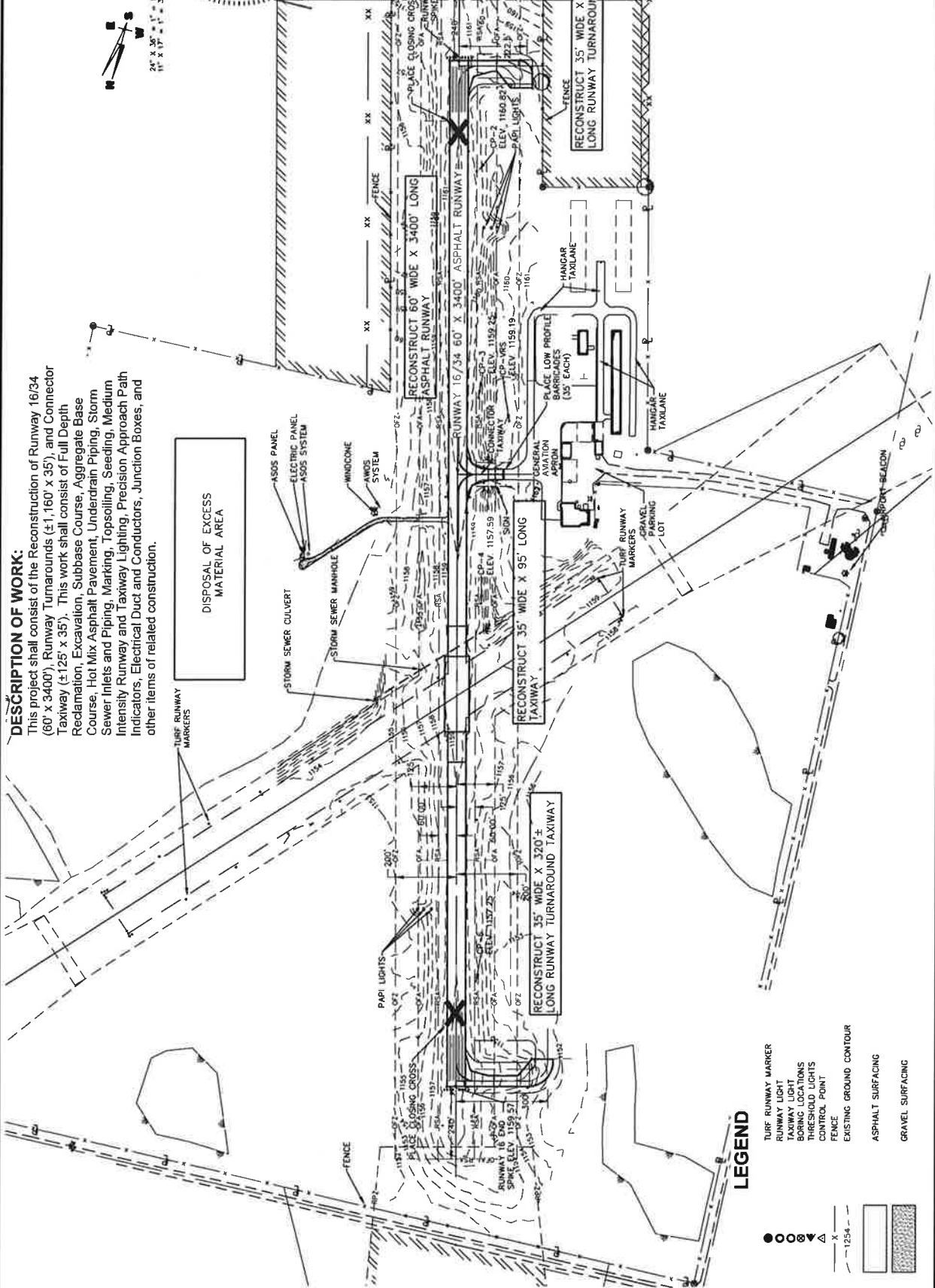
Part II - SECTION A			
The term "Sponsor" refers to the applicant name provided in box 8 of the associated SF-424 form.			
Item 1. Does Sponsor maintain an active registration in the System for Award Management (www.SAM.gov)?	Yes	No	
Item 2. Can Sponsor commence the work identified in the application in the fiscal year the grant is made or within six months after the grant is made, whichever is later?	Yes	No	N/A
Item 3. Are there any foreseeable events that would delay completion of the project? If yes, provide attachment to this form that lists the events.	Yes	No	N/A
Item 4. Will the project(s) covered by this request have impacts or effects on the environment that require mitigating measures? If yes, attach a summary listing of mitigating measures to this application and identify the name and date of the environmental document(s).	Yes	No	N/A
Item 5. Is the project covered by this request included in an approved Passenger Facility Charge (PFC) application or other Federal assistance program? If yes, please identify other funding sources by checking all applicable boxes. <div style="margin-left: 20px;"> The project is included in an <i>approved</i> PFC application. If included in an approved PFC application, does the application <i>only</i> address AIP matching share? Yes No </div> The project is included in another Federal Assistance program. Its CFDA number is below.	Yes	No	N/A
Item 6. Will the requested Federal assistance include Sponsor indirect costs as described in 2 CFR Appendix VII to Part 200, States and Local Government and Indian Tribe Indirect Cost Proposals? If the request for Federal assistance includes a claim for allowable indirect costs, select the applicable indirect cost rate the Sponsor proposes to apply: <div style="margin-left: 20px;"> De Minimis rate of 10% as permitted by 2 CFR § 200.414. Negotiated Rate equal to % as approved by (the Cognizant Agency) on (Date) (2 CFR part 200, appendix VII). </div> <i>Note: Refer to the instructions for limitations of application associated with claiming Sponsor indirect costs.</i>	Yes	No	N/A

PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: AIP #3-46-0051-015-2019
AIRPORT: Sisseton Municipal Airport
1. Objective: Reconstruction of Runway 16/34, turnarounds, connector taxiway, and new lighting. The PCI has fallen to 23, 16, and 28 for the runway, turnarounds, and connector taxiway, respectively. The pavements have exceeded the end of their useful lives and are in immediate need of reconstruction.
2. Benefits Anticipated: The reconstruction of Runway 16/34, turnarounds, and connector taxiway will allow for safer operation on the airport.
3. Approach: (See approved Scope of Work in Final Application) Completed Geotechnical Exploration Design Runway Reconstruction Submit CSPP Submit Engineer's Design Report Advertise for Bids Complete Construction Project
4. Geographic Location: Sisseton Municipal Airport Sisseton, Roberts County, South Dakota
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number) Terry Jaspers, Mayor 605-698-3391 406 2nd Ave. W Sisseton, SD 57262



DATE	DESCRIPTION



DESCRIPTION OF WORK:
 This project shall consist of the Reconstruction of Runway 16/34 (60' x 3400'), Runway Turnarounds (±1,160' x 35'), and Connector Taxiway (±125' x 35'). This work shall consist of Full Depth Reclamation, Excavation, Subbase Course, Aggregate Base Course, Hot Mix Asphalt Pavement, Underdrain Piping, Storm Sewer Inlets and Piping, Marking, Topsoiling, Seeding, Medium Intensity Runway and Taxiway Lighting, Precision Approach Path Indicators, Electrical Duct and Conductors, Junction Boxes, and other items of related construction.

DISPOSAL OF EXCESS MATERIAL AREA

LEGEND

●	TURF RUNWAY MARKER
○	RUNWAY LIGHT
○	TAXIWAY LIGHT
⊗	BORING LOCATIONS
▲	THRESHOLD LIGHTS
△	CONTROL POINT
—	FENCE
- - -	EXISTING GROUND CONTOUR
[Pattern]	ASPHALT SURFACING
[Pattern]	GRAVEL SURFACING



PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: AIP #3-46-0041-011-2019
AIRPORT: Sturgis Municipal Airport
1. Objective: Design Radius Fillets on Taxiways, 6-Unit T-Hangar w/ Taxilane Expansion, Pave 12' Wide Access Road & Relocate OFA Obstructions
2. Benefits Anticipated: Filling radii on existing taxilanes will eliminate aircraft tires veering off pavement and tracking mud. Additional T-Hangar will provide storage for congested aircraft in the existing hangars. The new T-Hangar unit will be constructed on the existing apron provided paved access on one side of t-hangars. An additional taxilane will allow aircraft to taxi to the south side of the t-hangars.
3. Approach: (See approved Scope of Work in Final Application) Design Radius Fillets on Taxiways, 6-Unit T-Hangar, Taxilane Expansion, Pave 12' Wide Access Road & Relocate OFA Obstruction Submit CSPP Submit Engineer's Design Report Advertise for Bids
4. Geographic Location: Sturgis Municipal Airport Sturgis, Sully County, South Dakota
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number) Dave Ainslie, City Manager 605-347-4422 1040 Harley Davidson Way Sturgis, SD 57785-1552

GENERAL AVIATION AREA PROPOSED T-HANGAR LAYOUT STURGIS MUNICIPAL AIRPORT STURGIS, SOUTH DAKOTA

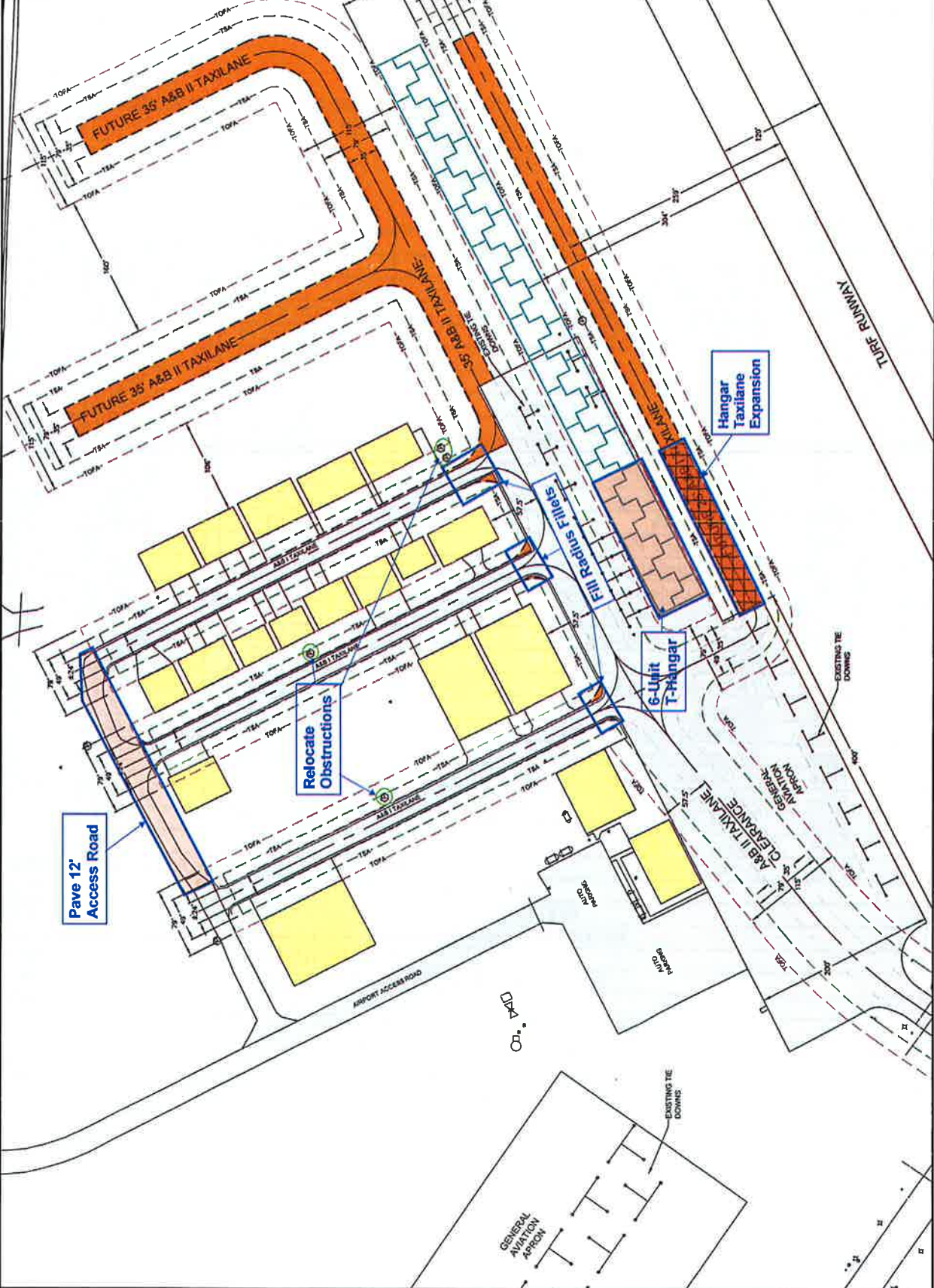
Drawn By: HELMS
Clerk: STURGIS
Proj. No: STURGIS
V.P. No: 25419
Date: 2/24/19



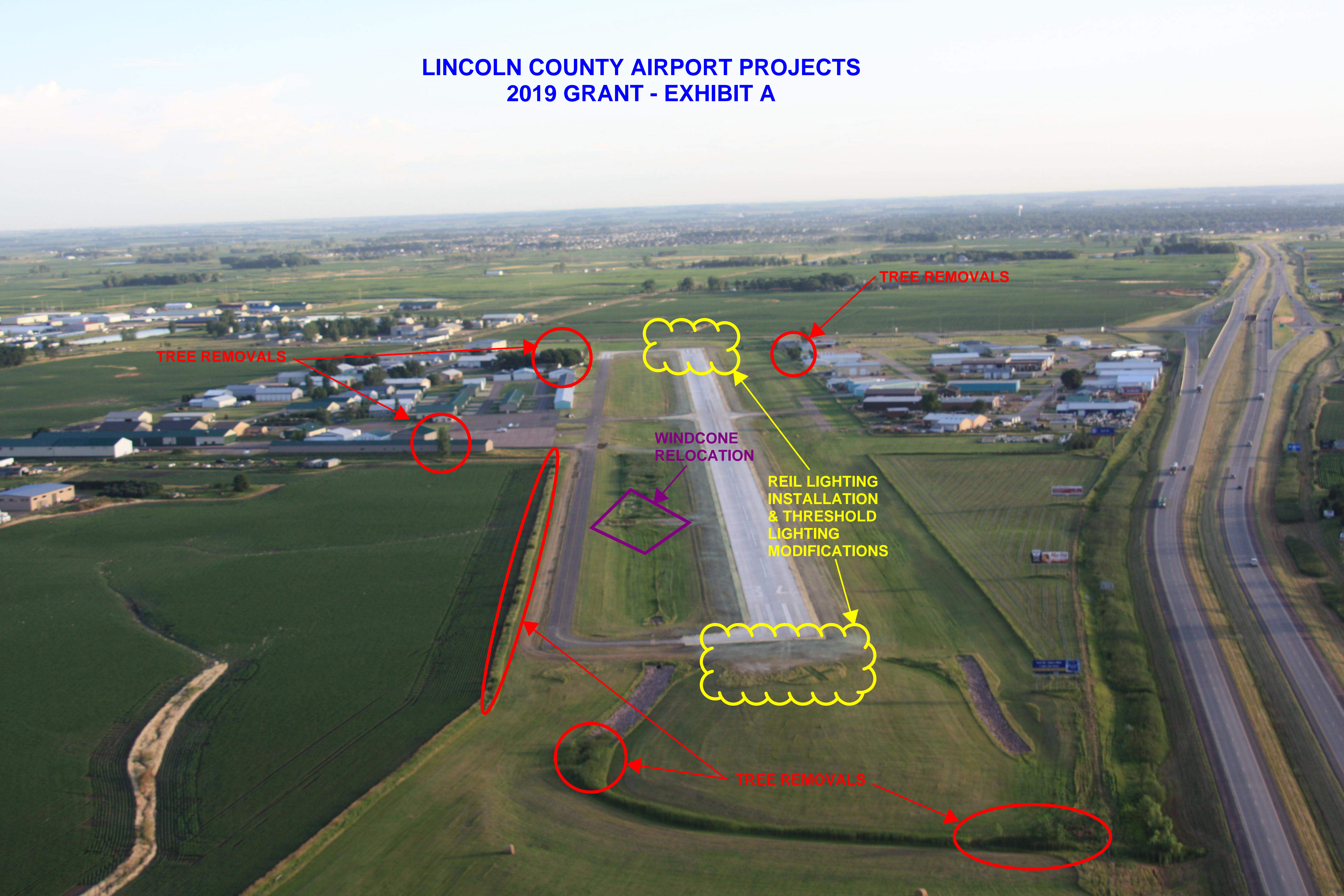
221 Brown County Highway 19
Aberdeen, S.D. 57401
P.O. Box 111
Phone: 605.225.1312
Fax: 605.225.1399
Email: hba@helmsandassociates.com

Rev.	Date	Description

SCALE
VERTICAL
1" = 10'



LINCOLN COUNTY AIRPORT PROJECTS
2019 GRANT - EXHIBIT A



TREE REMOVALS

TREE REMOVALS

WINDCONE
RELOCATION

REIL LIGHTING
INSTALLATION
& THRESHOLD
LIGHTING
MODIFICATIONS

TREE REMOVALS

PART IV – PROGRAM NARRATIVE
(Suggested Format)

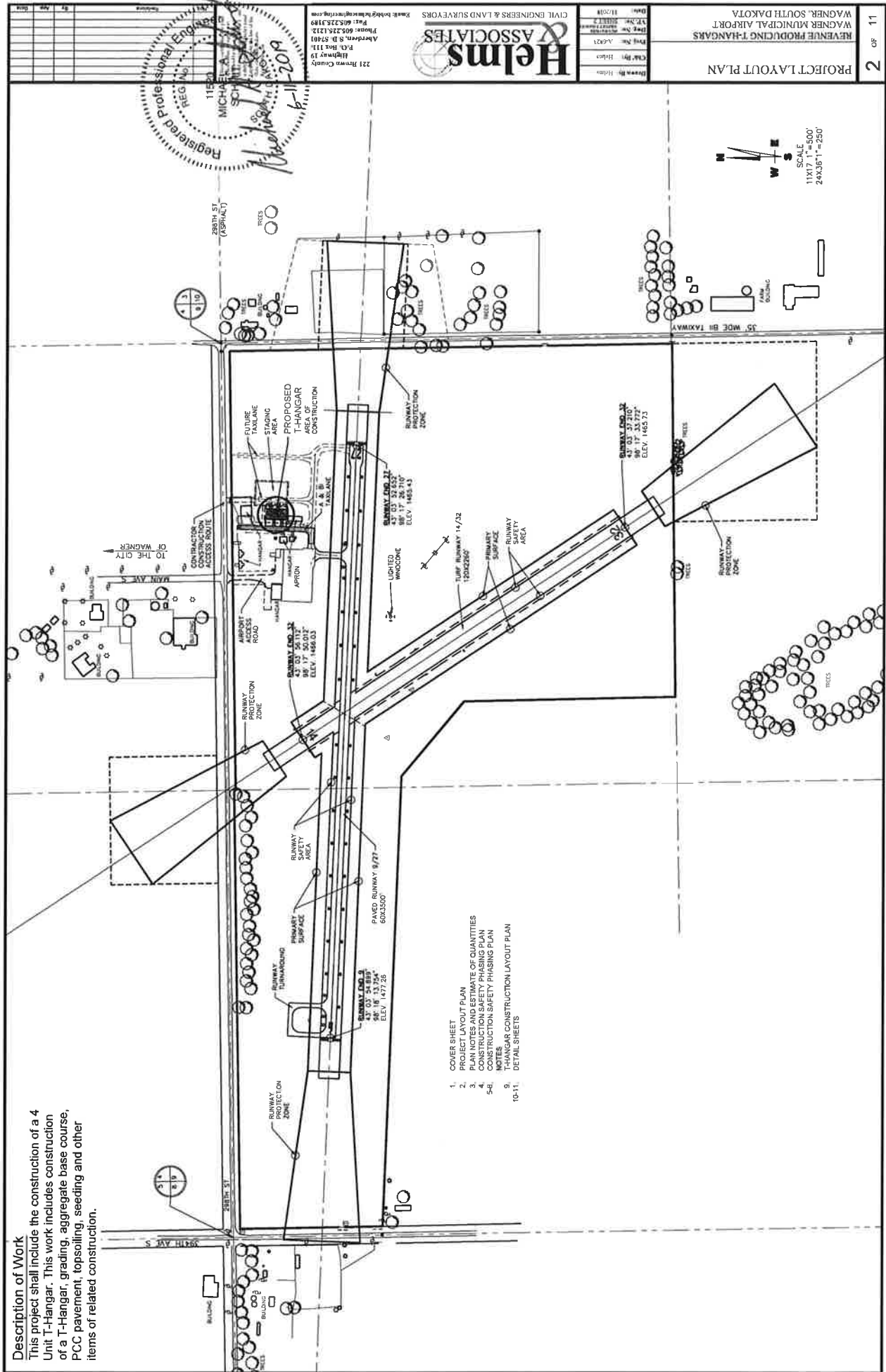
PROJECT:
AIRPORT:
1. Objective:
2. Benefits Anticipated:
3. Approach: (See approved Scope of Work in Final Application)
4. Geographic Location:
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number)

PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: AIP #3-46-0057-014-2019
AIRPORT: Wagner Municipal Airport
1. Objective: Construct Revenue Producing T-Hangars
2. Benefits Anticipated: Revenue Producing T-Hangar availability will allow for new or current users to have indoor storage for their aircraft.
3. Approach: (See approved Scope of Work in Final Application) Bid Project Construct T-Hangars
4. Geographic Location: Wagner Municipal Airport Wagner, Charles Mix, South Dakota
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number) Don Hosek, Mayor 605-384-3741 PO Box 40 Wagner, SD 57380-0040

Description of Work

This project shall include the construction of a 4 Unit T-Hangar. This work includes construction of a T-Hangar, grading, aggregate base course, PCC pavement, topsoiling, seeding and other items of related construction.



- 1. COVER SHEET
- 2. PROJECT LAYOUT PLAN
- 3. PLAN NOTES AND ESTIMATE OF QUANTITIES
- 4. CONSTRUCTION SAFETY PHASING PLAN
- 5. CONSTRUCTION SAFETY PHASING PLAN
- 6. CONSTRUCTION SAFETY PHASING PLAN
- 7. T-HANGAR CONSTRUCTION LAYOUT PLAN
- 8. T-HANGAR CONSTRUCTION LAYOUT PLAN
- 9. T-HANGAR CONSTRUCTION LAYOUT PLAN
- 10-11. DETAIL SHEETS

Drawn By:	Hildes
Checked By:	Hildes
Proj. No.:	16-023
Sheet No.:	11
Date:	11/20/18

Helm's & Associates
 CIVIL ENGINEERS & LAND SURVEYORS
 221 Hayes County
 Highway 15
 P.O. Box 111
 Aberdeen, S.D. 57401
 Phone: 605.225.1212
 Fax: 605.225.3185
 Email: hildes@helmsandassociates.com

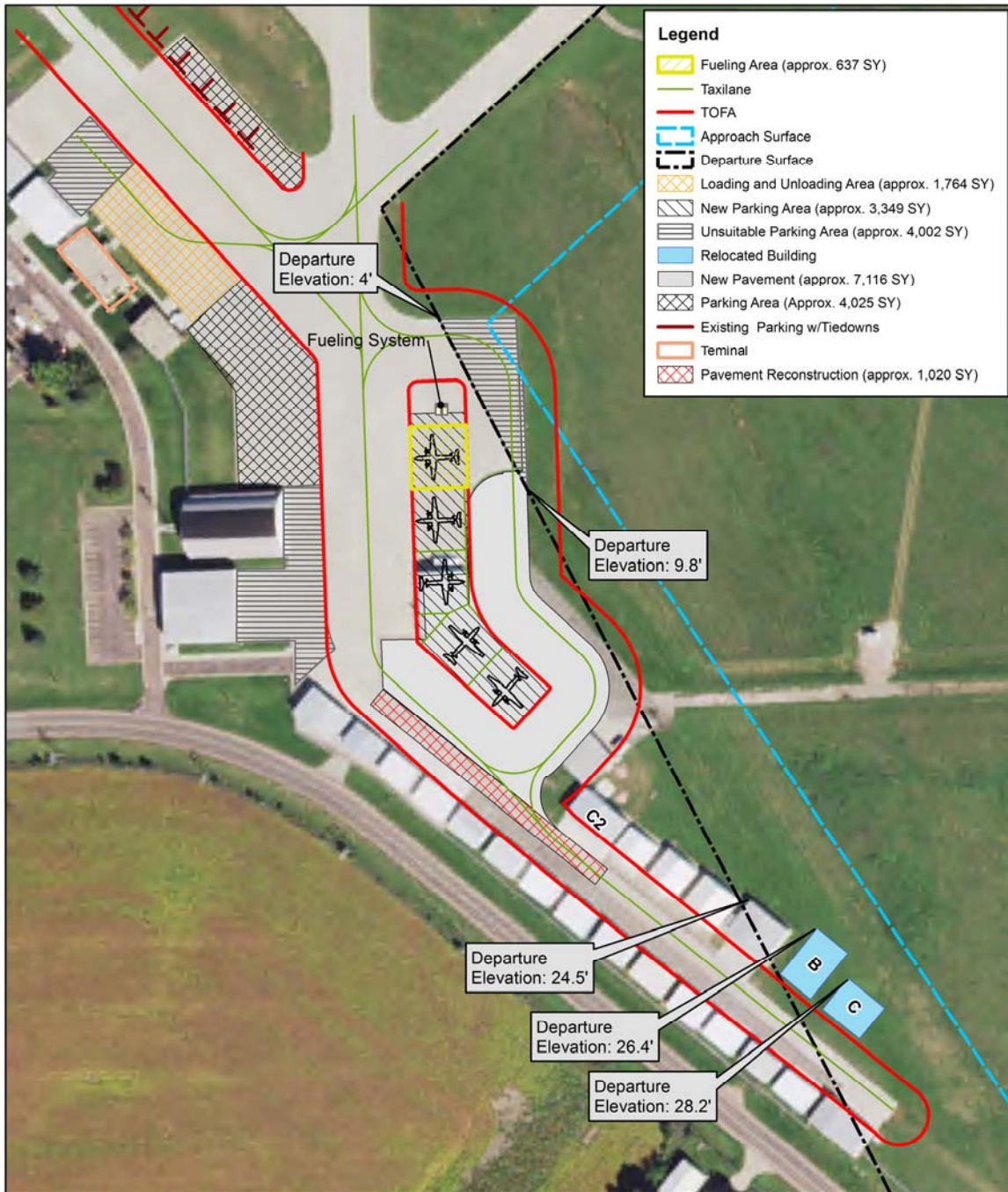
Registered Professional Engineer
 MICHAEL A. SCHMIDT
 No. 11520
 State of South Dakota
 6-11-2019

SCALE
 11x17 1"=500'
 24x36 1"=250'

PART IV – PROGRAM NARRATIVE
(Suggested Format)

PROJECT: AIP #3-46-0059-10-2019
AIRPORT: Sigurd Anderson Field
1. Objective: Purchase 2 of 5 properties. Design a revenue producing hangar.
2. Benefits Anticipated: Own adequate property to install 10' wildlife fence under the 7:1 transitional surface. 2 of 5 purchase agreements are in place. Revenue producing hangars will provide hangar rental space at the airport for temporary and long term aircraft storage.
3. Approach: (See approved Scope of Work in Final Application) Completed appraisals Reviewed appraisals Make offers Negotiate Finalize purchase agreements Geotechnical Exploration Design revenue producing hangars
4. Geographic Location: Sigurd Anderson Field Webster, Day County, South Dakota
5. If Applicable, Provide Additional Information:
6. Sponsor's Representative: (include address & telephone number) Michael Grosek, Mayor 605-345-3241 PO Box 539 Webster, SD 57274

Figure 11, Alternative D



Chan Gurney Municipal Airport - Yankton, SD
AIP #3-46-0062-029-2019
Project Narrative

Construct Apron Expansion, Remove One Hangar and Relocate Two Hangars:

The City of Yankton is requesting financial assistance for the construction of the apron expansion and association items. The apron expansion is a result of the airport needing additional room to park large aircraft. An environmental assessment was recently completed for the project. Expanding this area will also reconstruct a significant amount of pavement that is past its service life. This pavement had a PCI rating in 2015 of 0. The project also includes removing one hangar and relocating two hangars that are impacted due to the project.