

**CITY OF MONROE
MONROE CUSTER AIRPORT (TTF)**

Proposed Development Plan
2012-2022

Program Narrative

2012

Runway reconstruction 3-21 Drainage Improvements– during 2010 runway rehabilitation serious drainage issues were identified but were not addressed due to funding limitations. This project would address those issues to complete the runway rehabilitation of 2010.

Rehabilitate terminal apron - Design – Existing concrete apron areas are exhibiting joint sealant failures, slab cracking and some pavement failures. This project will provide for the design for the rehabilitation of the apron pavement.

2013

Rehabilitate terminal apron – Construct – Existing concrete apron areas are exhibiting joint sealant failures, slab cracking and some pavement failures. This project will provide for the construction for the rehabilitation of the apron pavement.

2014

None

2015

Taxilane rehabilitation – Phase 1 – Recent PCI report rated the taxiway area identified as TWAMN in pavement condition is in poor condition (PCI – 34) and requires rehab. Due to funding limitations this project has been broken into two phases.

2016

Taxilane rehabilitation – Phase 2 – Recent PCI report rated the taxiway area identified as TWAMN in pavement condition is in poor condition (PCI – 34) and requires rehab. Due to funding limitations this project has been broken into two phases.

2017

Install AWOS – existing weather reporting equipment has exceeded its useful life and requires replacement

2018

Repave entry access road - road is in a deteriorated condition and was further eroded during 2010 runway rehabilitation project and is in need of resurfacing.

**CITY OF MONROE
MONROE CUSTER AIRPORT (TTF)**

Proposed Development Plan
2012-2022

Program Narrative pg. 2

2019

VASI RW 03 replacement with PAPI –Including Easement Acquisition – VASI system on RW 03 is aged and maintenance replacement parts are difficult and in some cases impossible to readily obtain.

2020

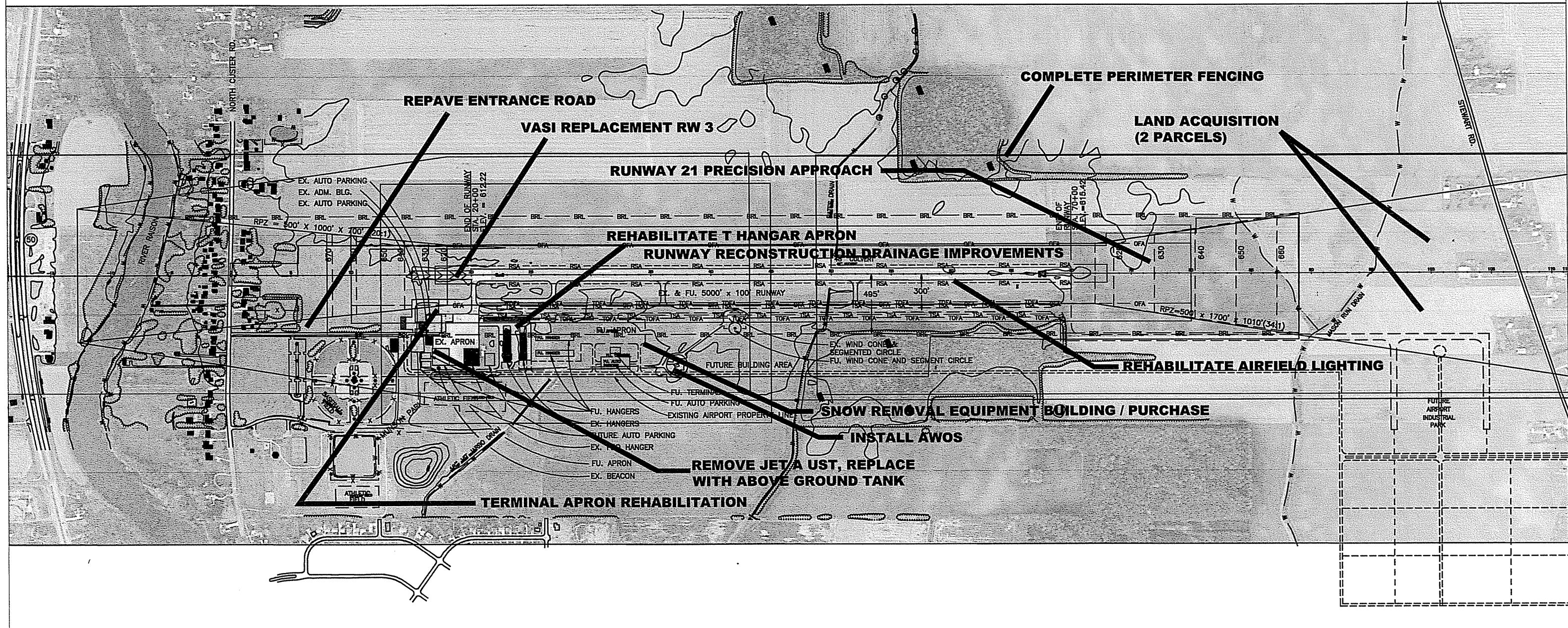
Remove and replace Jet A UST and replace with AST and pump – existing UST was relined in 1998 and can not be further upgraded. The pump and dispenser unit are approaching twenty years of service and in need of replacement.

2021

SRE acquisition (truck with broom and blade) – Airport is presently renting equipment from City however this arrangement may not continue. Airport owned equipment operated by Airport employees will improve operations, safety and access.

2022

Construct SRE storage building – provide for storage of equipment as no building exists on Airport suitable to accommodate this equipment.



REPAVE ENTRANCE ROAD

VASI REPLACEMENT RW 3

COMPLETE PERIMETER FENCING

**LAND ACQUISITION
(2 PARCELS)**

RUNWAY 21 PRECISION APPROACH

REHABILITATE T HANGAR APRON

RUNWAY RECONSTRUCTION DRAINAGE IMPROVEMENTS

REHABILITATE AIRFIELD LIGHTING

SNOW REMOVAL EQUIPMENT BUILDING / PURCHASE

INSTALL AWOS

**REMOVE JET A UST, REPLACE
WITH ABOVE GROUND TANK**

TERMINAL APRON REHABILITATION

EX. AUTO PARKING
EX. ADM. BLDG.
EX. AUTO PARKING

RPZ = 600' X 1000' X 100' (20:1)

END OF RUNWAY
STA. 20+00
ELEV. = 612.22

END OF RUNWAY
STA. 70+00
ELEV. = 618.42

EX. & FU. 5000' x 100' RUNWAY

495' 300'

RPZ = 500' X 1700' X 1010' (34:1)

FUTURE BUILDING AREA

EX. WIND CONE &
SEGMENTED CIRCLE
FU. WIND CONE AND SEGMENT CIRCLE

FU. TERMINAL

FU. AUTO PARKING

EXISTING AIRPORT PROPERTY LINE

FU. HANGERS

EX. HANGERS

FUTURE AUTO PARKING

EX. FOOD HANGER

FU. APRON

EX. BEACON

FUTURE AIRPORT INDUSTRIAL PARK

NORTH CLUSTER RD.

STEWART RD.

RIVER RAISON

50

ATHLETIC FIELD

ATHLETIC FIELD

WASH. RAIN DRAIN

LOCATION: Monroe Custer Airport

RS&H Michigan, Inc.
Date Prepared: 07/15/10

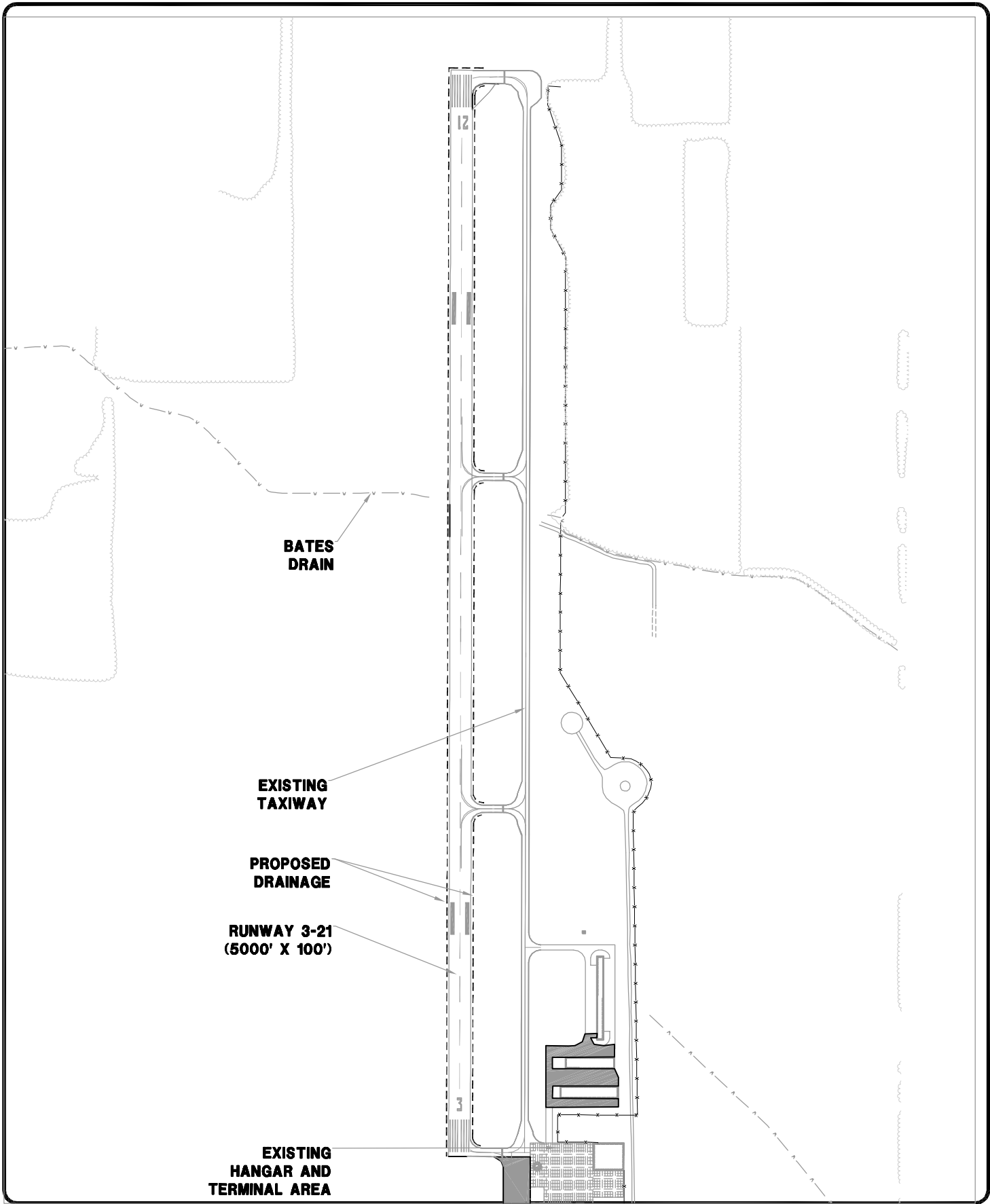
PROJECT DESCRIPTION:

Runway 3-21 Drainage Improvements

PRELIMINARY PROJECT COST ESTIMATE

File Name: 2010-04-12 Terminal Apron Rehab Est.xls

| WORK ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|-------------------------------------------------|------|----------|-------------|---------------------|
| <u>Runway 3-21 Drainage Improvements</u> | | | | |
| Mobilization and General Conditions | LSUM | 1 | \$10,000.00 | \$10,000.00 |
| Safety and Security | LSUM | 1 | \$5,000.00 | \$5,000.00 |
| 6" Underdrain with Porous Backfill | SFT | 11,000 | \$12.00 | \$132,000.00 |
| 6" SDR 35 Pipe | SFT | 500 | \$10.00 | \$5,000.00 |
| Adjust Drainage Structure | EACH | 4 | \$1,500.00 | \$6,000.00 |
| Unclassified Excavation | CYD | 2,000 | \$10.00 | \$20,000.00 |
| Restoration | LSUM | 1 | \$10,000.00 | \$10,000.00 |
| SESC Measures | LSUM | 1 | \$5,000.00 | \$5,000.00 |
| Subtotal | | | | \$193,000.00 |
| 15% Contingency | | | | \$28,950.00 |
| Total Preliminary Construction Cost | | | | <u>\$222,000.00</u> |
| PROFESSIONAL SERVICES | | | | |
| Estimated Design Services | LSUM | 1 | \$16,000.00 | \$16,000.00 |
| Estimated Construction Services | LSUM | 1 | \$22,000.00 | \$22,000.00 |
| TOTAL ESTIMATED PROJECT COST | | | | \$260,000.00 |



**MONROE
CUSTER AIRPORT**

RS&H.
IMPROVING YOUR WORLD

**RUNWAY 3-21 DRAINAGE IMPROVEMENTS
SITE PLAN**

LOCATION: Monroe Custer Airport

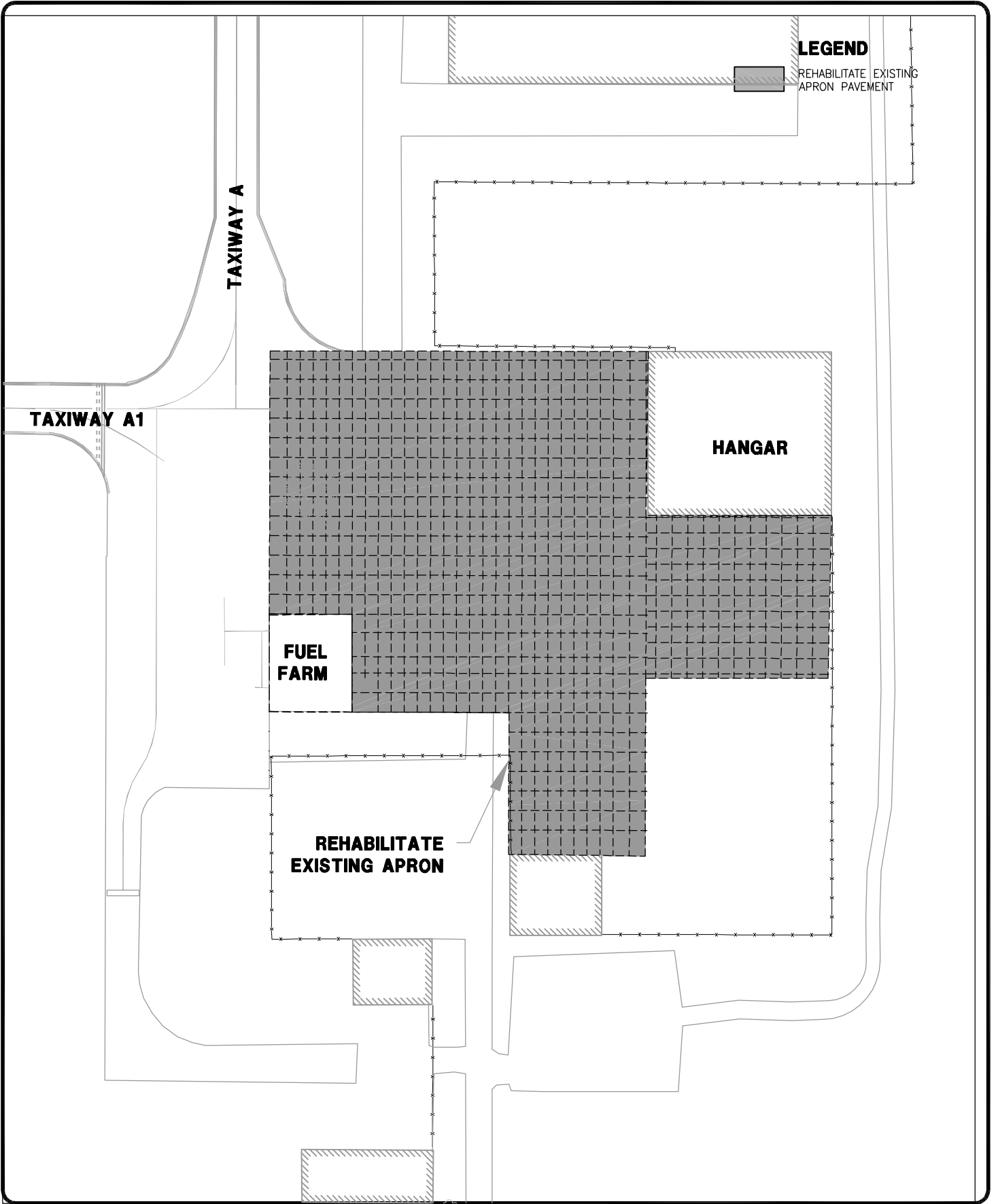
RS&H Michigan, Inc.
Date Prepared: 07/15/10

PROJECT DESCRIPTION:
Terminal Apron Rehabilitation

PRELIMINARY PROJECT COST ESTIMATE

File Name: 2010-04-12 Terminal Apron Rehab Est.xls

| WORK ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|--------------------------------------------------|------|----------|-------------|---------------------|
| <u>Terminal Apron Rehabilitation</u> | | | | |
| Mobilization and General Conditions | LSUM | 1 | \$20,000.00 | \$20,000.00 |
| Safety and Security | LSUM | 1 | \$10,000.00 | \$10,000.00 |
| 10" PCC Panel Remove and Replace (20' x 20' typ) | EACH | 10 | \$2,000.00 | \$20,000.00 |
| Concrete Spall Repair | SFT | 3,000 | \$25.00 | \$75,000.00 |
| Concrete Crack Repair and Seal | LFT | 1,000 | \$3.00 | \$3,000.00 |
| Drainage Structure Repair | EACH | 7 | \$3,000.00 | \$21,000.00 |
| Remove and Replace Existing Joint Sealant | LFT | 18,000 | \$3.00 | \$54,000.00 |
| Subtotal | | | | \$203,000.00 |
| 15% Contingency | | | | \$30,450.00 |
| Total Preliminary Construction Cost | | | | \$233,000.00 |
| PROFESSIONAL SERVICES | | | | |
| Estimated Design Services | LSUM | 1 | \$16,000.00 | \$16,000.00 |
| Estimated Construction Services | LSUM | 1 | \$23,000.00 | \$23,000.00 |
| TOTAL ESTIMATED PROJECT COST | | | | \$272,000.00 |



**MONROE
CUSTER AIRPORT**

RS&H.
IMPROVING YOUR WORLD

**APRON REHABILITATION
SITE PLAN**

LOCATION: Monroe Custer Airport

RS&H Michigan, Inc.
Date Prepared: 07/15/10

PROJECT DESCRIPTION:
Taxilane Rehabilitation

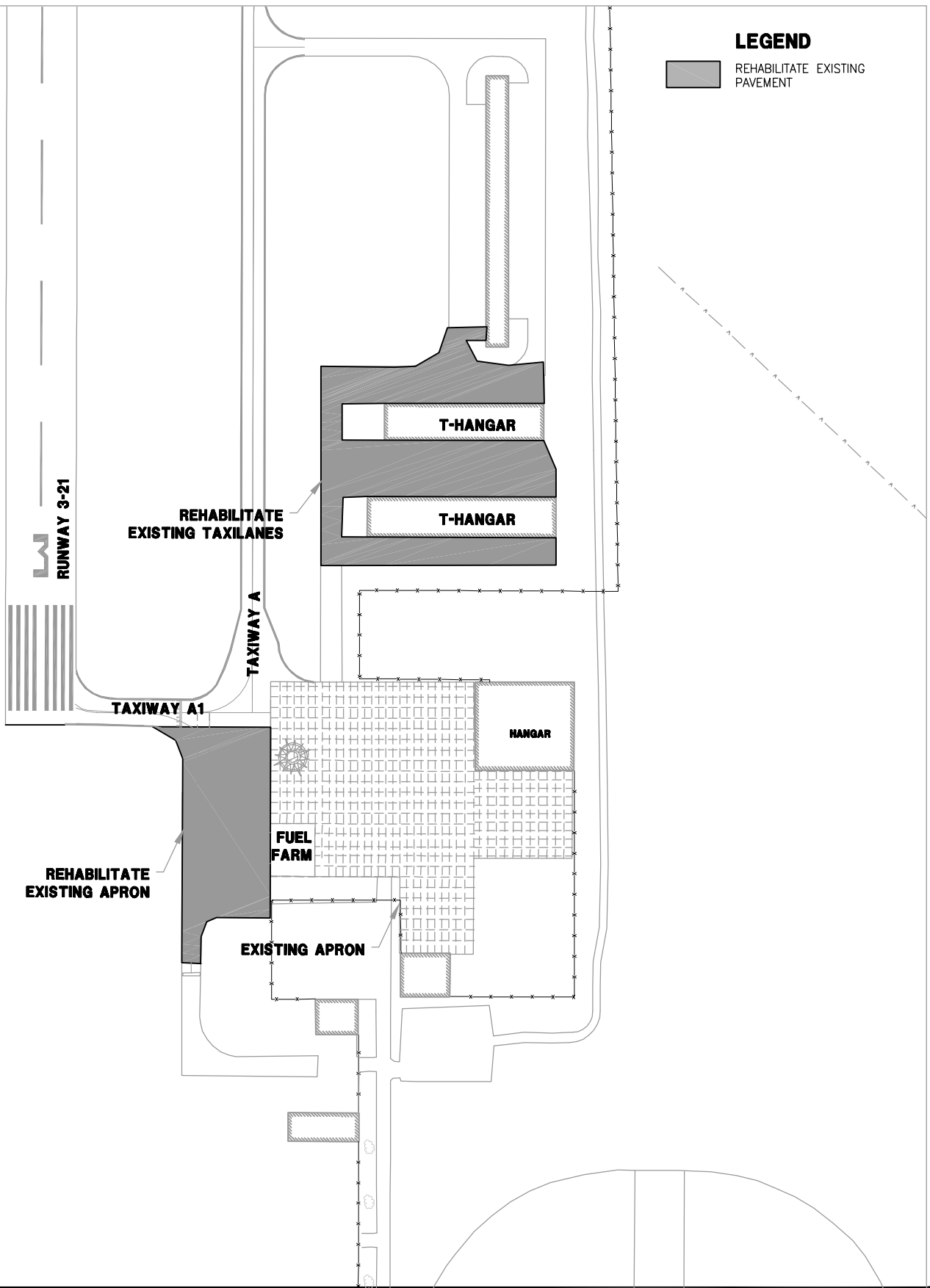
PRELIMINARY PROJECT COST ESTIMATE

File Name: 2010-04-12 Terminal Apron Rehab Est.xls

| WORK ITEM DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|--------------------------------------------|------|----------|-------------|---------------------|
| <u>Taxilane Rehabilitation</u> | | | | |
| Mobilization and General Conditions | LSUM | 1 | \$25,000.00 | \$25,000.00 |
| Safety and Security | LSUM | 1 | \$15,000.00 | \$15,000.00 |
| Bituminous Pavement, 20AAAX | TON | 3,000 | \$80.00 | \$240,000.00 |
| Coldmilling of Bituminous Pavement | SYD | 11,000 | \$5.00 | \$55,000.00 |
| Misc. Restoration | LSUM | 1 | \$15,000.00 | \$15,000.00 |
| Subtotal | | | | \$350,000.00 |
| 15% Contingency | | | | \$52,500.00 |
| Total Preliminary Construction Cost | | | | \$403,000.00 |
| PROFESSIONAL SERVICES | | | | |
| Estimated Design Services | LSUM | 1 | \$28,000.00 | \$28,000.00 |
| Estimated Construction Services | LSUM | 1 | \$40,000.00 | \$40,000.00 |
| TOTAL ESTIMATED PROJECT COST | | | | \$471,000.00 |

LEGEND

REHABILITATE EXISTING PAVEMENT



**MONROE
CUSTER AIRPORT**

RS&H.
IMPROVING YOUR WORLD

**TAXILANE REHABILITATION
SITE PLAN**