# County of Champaign, Illinois

# Facilities Assessment Report

November 3, 2015









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Charts

Adjusted Facilities Overview



#### Purpose of the Study

As part of its mission to best serve its residents and consistent with the second initiative of the strategic plan, Champaign County has contracted Bailey Edward to conduct a facilities assessment report for all of their facilities.

The objectives of the study are to:

- Perform a full assessment of the current condition of the buildings.
- Provide an inventory database of current and short term maintenance, repair, and replacement needs.
- Identify the backlog of deferred maintenance needs for existing buildings.
- Determine a Facilities Condition Index (FCI) to quickly identify the relative condition of each building as compared to a national benchmark.
- Provide a basis of decision making regarding routine maintenance, capital renewal, and functional improvements for existing facilities.
- Determine the overall estimated annual cost needed to keep buildings maintained.

Using the information gathered in this study to develop a proactive response toward maintenance needs, will protect and extend the useful life of buildings, reduce disruptions to employees and constituents for emergency maintenance and repair, and facilitate efficient, effective services for the residents of Champaign County.



#### **Key Concepts**

Below are definitions and explanations of the key terms and values used throughout this report.

#### **Current Replacement Value (CRV)**

The Association of Physical Plant Administrators (APPA) has defined the CRV as "the total expenditure in current dollars required to replace a facility...to meet current acceptable standards of construction and comply with regulatory requirements." Older facilities that do not meet current codes should be valued with replacement buildings that are compliant to current codes.

#### Deferred Maintenance Backlog (DMB)

The DMB is a dollar amount totaling all the maintenance, repairs, upgrades, and component replacement deemed necessary from the facilities assessment. This value does not include projected facility improvements, additions, or new construction.

The DMB value is calculated for a set period of time. This report focuses on the 1-year (0-1 year) and 5-year (0-5 year) deferred maintenance needs. The 0-1 year DMB are the rough estimated cost of work that needs to be done within the next year. The 5-Year DMB includes all maintenance, repair, and replacement costs expected or recommended for the next 5 years.

#### Deferred Maintenance Backlog Excess (DMB Excess)

The DMB Excess represents the amount that the DMB exceeds the 5% FCI threshold recommended by the APPA for buildings in "Good" condition (see explanation under "FCI" below). For buildings with an FCI below 5%, the DMB Excess is \$0.

For example, consider a building with a CRV of \$1,000,000. If the DMB is found to be \$75,000, the FCI is calculated to be 7.5% (75,000/1,000,000). The DMB value at 5% FCI would be \$50,000. The DMB Excess would then be any expense over a 5% FCI, which in this case would be \$25,000 (75,000-50,000). This additional \$25,000 is the added expense to bring the building back to "Good" condition.

#### Annual Cost to Maintain DMB

This is the dollar amount that must be invested each year into the facility in order for the FCI and DMB to stay level. This amount of expense will not do anything to improve the facilities condition index or reduce the deferred maintenance backlog, but is the minimum expense recommended to keep the building from declining.

This value is based on the industry standard of 2% of the CRV, based on straight line depreciation for a 50 year lifespan (2% per year for 50 years = 100% of CRV). However, many building components do not last 50 years before needing replacement, so this value is meant only as a quick rule of thumb.



#### Facilities Condition Index (FCI)

The FCI is a systematic method of evaluating the current condition of buildings over a given time period. It is calculated as the deferred maintenance backlog divided by the current replacement value (DMB/CRV=FCI).

The APPA has recommended the following guidelines for overall building condition:







FCI < 5% **GOOD** 







5% < FCI < 10% **FAIR** 









FCI > 10% **POOR** 

- Buildings in "Good" condition are typically newer facilities with few deficiencies and require little more than routine maintenance and system checks.
- Buildings in "Fair" condition are typically slightly older buildings that require more substantial maintenance and replacement of aging components.
- Buildings in "Poor" condition have either more significant deficiencies that require replacement or repair, or a larger quantity of components needing to be upgraded or repaired.

#### Priority Issues vs. 0-5 Year Issues

The FCI can be calculated for different periods of time. This report highlights Priority Issues (0-1 Year Issues) and 0-5 Year Issues and calculates the DMB and FCI for each time period.

Priority Issues are typically life safety, code compliance, or failed systems or components that need immediate attention for the building to be safe and used for its intended purpose.

In addition to the priority issues, 0-5 Year Issues include less critical maintenance, replacement of aging building systems or components, and upgrades to finishes and fixtures. This value is often a better indicator of the building's overall condition and maintenance need than the 1-Year value.



#### Methodology

In order to best understand the existing condition of the county facilities, several steps were taken. Bailey Edward and our consultant team conducted site survey building assessments by walking through each building with maintenance personnel. In addition, they reviewed all existing construction drawings, renovation drawings, and maintenance records available from the County.

The information gathered through these processes was organized and categorized using nationally accepted techniques as recommended by the APPA. For the purposes of assessment, the buildings were separated into a series of building components. Each component was assigned a percentage of the CRV, such that the sum of the components equaled the full replacement value. The components and the rule-of-thumb percentage values are shown below. Due to the difference in configurations, the typical CRV percentages are different for larger buildings (over 15,000 SF) and smaller buildings (under 15,000 SF). The percent of CRV values varied slightly among the buildings as needed to more accurately represent each unique case.

#### **Building Use Types**

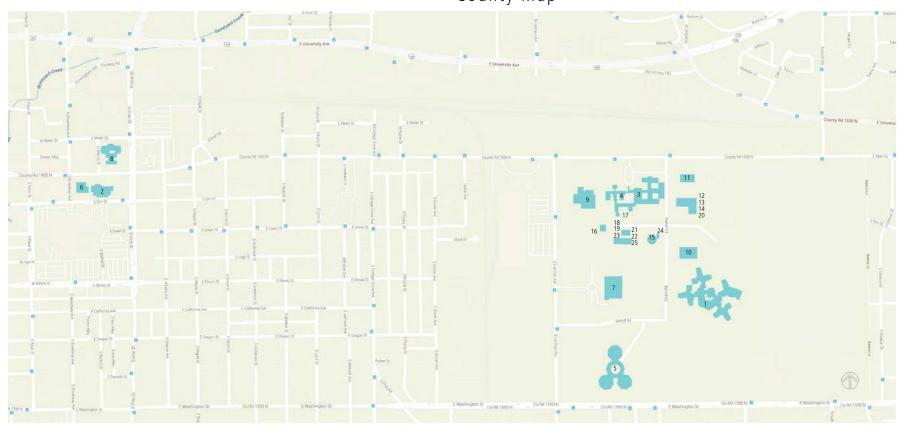
The Current Replacement Value for each building was determined using per square foot values obtained from Whitestone and RS Means. These are regionally weighed and are listed below.

Component Name	Cost / SF
Central Plant, Boiler	\$676
County Jail	\$214
Courthouse	\$290
Election Supply	\$167
Maintenance Shop	\$230
Mortuary	\$252
Nursing Home	\$222
Office Building	\$211
Operation Center	\$211
Service Garage	\$285
Tactics Training	\$222
Salt Dome	\$85
Pre-Engineered Metal Building	\$115
Animal Control	\$115
Garages	\$50

County Map The following page is a county map highlighting the buildings surveyed for this report.



# County of Champaign, Illinois County Map



#### 1 Nursing Home

- 2 Courthouse Addition
- 3 ILEAS Original Building
- 4 ILEAS Training Center
- 5 Brookens Administrative Center
- 6 Courthouse
- 7 Adult Detention Facility

#### 8 Sheriff / Correctional Center

- 9 Highway Fleet Maintenance
- 10 Juvenile Detention Center
- 11 Emergency Operation Center
- 12 Coroner's Office
- 13 Physical Plant Shop
- 14 Election Supply

#### 15 Highway Salt Dome

- 16 Animal Control
- 17 ILEAS Boiler House
- 18 Sheriff Garage
- 19 County Highway Garage
- 20 Nursing Home Storage
- 21 EMA Garage

### **LEGEND**

#### 22 ILEAS Garage 2

- 23 ILEAS Garage 3
- 24 Salt Dome Garage
- 25 ILEAS Garage 1



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# County of Champaign, Illinois

**Facilities Assessment Report** 

#### **Summary of Results**

This report focuses on twenty-five county owned buildings. Included below is a list of facilities reviewed and the square footage as given by the county:

	Facility	SF
1	Nursing Home	133,192
2	Courthouse Addition	99,500
3	ILEAS Original Building	105,000
4	ILEAS Training Center	95,436
5	Brookens Administrative Center	93,060
6	Courthouse	46,839
7	Adult Detention Facility	57,000
8	Sheriff / Correctional Center	55,000
9	Highway Fleet Maintenance	43,975
10	Juvenile Detention Center	31,000
11	Emergency Operation Center (METCAD)	19,600
12	Coroner's Office	5,750
13	Physical Plant Shop	11,956
14	Sheriff Garage	7,800
15	Election Supply	5,895
16	Highway Salt Dome	7,854
17	Animal Control	4,500
18	County Highway Garage	4,320
19	ILEAS Boiler House	1,200
20	EMA Garage	2,880
21	ILEAS Garage 2	2,880
22	ILEAS Garage 3	2,880
23	Nursing Home Storage	1,444
24	ILEAS Garage 1	1,440
25	Salt Dome Garage	1,400

This represents a total of 841,801 square feet reviewed for this facility condition assessment.

According to APPA standards, the 1-year condition of the 25 buildings overall is "Fair". This is due primarily to the condition of HVAC systems past their useful life, critical issues, various minor code deficiencies, and the inclusion of the ILEAS Original Building (previous poor farm).

The 5-year outlook, however, requires more attention. A substantial amount of deferred maintenance has accumulated and the 5 year FCI value is considered "Poor", with a FCI at 11.8%. The following are common and key findings leading to this result:

- Some roofs are past their useful life and require either repair or full replacement. This includes primarily shingle roofs or EPDM roof systems.
- Some older facilities still have original window systems, which are single pane and do not have thermal breaks in the frames. Full replacement of these windows with energy efficient windows is recommended.
- Many buildings are in need of isolated exterior brick repair or significant repointing of mortar that has deteriorated, including some lintel restoration. Efflorescence at some of the buildings could be a sign of a larger water infiltration issue and should be investigated.
- Room finishes such as flooring, wall coverings, and ceilings are in need of replacement throughout many facilities.
- Many areas of broken or damaged sidewalk were observed.
- ILEAS Original Building (previous poor farm and Nursing Home) is currently unoccupied and uninhabitable in its current condition. Significant repairs, ADA modifications and mold removal/





environmental abatement are needed to make this building safe and habitable.

- Light fixtures in several assessed facilities are outdated or inefficient. An upgrade to high efficiency fixtures is recommended.
- Many mechanical units are beyond their useful life and should be replaced. This includes air handling units, boilers, chillers, and other types of units. In addition, many facilities do not have any outside air intake which needs to be installed to meet code.
- Water supply systems do not have localized shutoff valves which create difficulties when working on components.
- Most facilities providing 24 hour services currently have generators however, there are still some facilities in need of generators.

#### **Individual Facility Assessments**

See below for an overview of all assessed buildings, followed by individual county buildings.



# County of Champaign, Illinois All Assessed Facilities Overview

<b>Building Name</b>	CRV	0-5 Year DMB	5-Year FCI
Nursing Home	\$29,647,207	\$1,787,400	6.0% 😑
Courthouse Addition	\$28,860,970	\$1,002,200	3.5% 💿
ILEAS Original Building	\$23,415,000	\$10,138,000	43.3% 😵
ILEAS Training Center	\$21,243,099	\$1,093,000	5.1% 😑
Brookens Admin Center	\$19,600,297	\$1,841,000	9.4% 😑
Courthouse	\$13,586,120	\$548,300	4.0% 📀
Adult Detention Facility	\$12,194,010	\$1,695,000	13.9% 😵
Sheriff / Correctional Center	\$11,766,150	\$2,033,800	17.3% 😵
Highway Fleet Maintenance	\$8,890,666	\$67,300	0.8% 💿
Juvenile Detention Center	\$6,631,830	\$379,300	5.7% 😑
Emergency Operation Center	\$4,128,152	\$336,000	8.1% 😑
Coroner's Office	\$1,449,000	\$140,500	9.7% 😑
Physical Plant Shop	\$1,374,342	\$32,000	2.3% 😉
Election Supply	\$677,630	\$16,700	2.5% 💿
Highway Salt Dome	\$667,590	\$166,050	24.9% 😵
Animal Control	\$517,275	\$186,900	36.1% 🥸
ILEAS Boiler House	\$480,000	\$255,000	53.1% 🕴
Sheriff Garage	\$390,000	\$91,400	23.4% 😢
County Highway Garage	\$216,000	\$14,000	6.5% 😑
Nursing Home Storage	\$165,988	\$600	0.4% 😊
EMA Garage	\$144,000	\$50,500	35.1% 🕴
ILEAS Garage 2	\$144,000	\$8,500	5.9% 😑
ILEAS Garage 3	\$144,000	\$11,000	7.6% 😑

## **Overall CRV**

\$186,524,327

Annual Cost to Maintain DMB \$5,595,730

### **Vital Statistics**

Number of Buildings	25
Oldest Building	1901
Newest Building	2010
Average Year Built	1988
Average Cost / SF	\$223

0-5 Year Issues

*FCI* 

11.8%

DMB

\$21,952,450

DMB Excess

\$12,626,234

**FCI** 

Rating

11.8%











<b>Building Name</b>	CRV	0-5 Year DMB	5-Year FCI
Salt Dome Garage	\$119,000	\$53,000	44.5% 🕴
ILEAS Garage 1	\$72,000	\$5,000	6.9% 😑
Total	\$186,524,327	\$21,952,450	11.8% 😀

### **Overall CRV**

\$186,524,327

Annual Cost to Maintain DMB \$5,595,730

### **Vital Statistics**

Number of Buildings 25
Oldest Building 1901
Newest Building 2010
Average Year Built 1988
Average Cost / SF \$223

0-5 Year Issues

FCI

11.8%

DMB

\$21,952,450

DMB Excess

\$12,626,234

**FCI** 

Rating

11.8%







### County of Champaign, Illinois Nursing Home



#### Observation Highlights:

- This building has a back-up generator.
- Brick masonry requires cleaning, minor re-pointing.
- Metal materials on and around exterior deteriorating and staining concrete.
- Exterior soffit panels missing, exposing non-weather resistant materials.
- Cosmetic scratches and damage to interior doors and frames.
- Interior flooring in good condition, minor staining and wear from normal use.
- Wall finishes in generally good condition, some impact damage and scratches.
- Tile floor and base in kitchen damaged and cracked. Some missing grout.
- Ceiling tiles in generally good condition, some water stains and damaged tiles.
- Existing nurse's call system has reliability issues and should be replaced.
- The return air system has several operational and control issues.

**CRV** \$29,647,207

Annual Cost to Maintain DMB

\$889,416

### **Vital Statistics**

Use Type Nursing Home

**Floors** Built Area 2005 133,192 SF

**Priority Issues** 0-5 Year Issues *FCI* FCI 0.9% 6.0% DMBDMB\$256,400 \$1,787,400

DMB Excess DMB Excess \$0 \$305,040

1 Year Rating

**GOOD** 











5 Year Rating





# County of Champaign, Illinois Nursing Home

















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- This building has a back-up generator.
- Interior walls and surfaces in good condition, minor drywall damage.
- Wall covering in courtrooms damaged and torn in various locations.
- Courtroom carpet tiles worn.
- Epoxy coating heavily worn and masonry crack in holding cells.
- Gutters and flashing dented in places.
- Standing water, moss and plants growing in roof ballast.
- Some masonry efflorescence and joint deterioration on facade.
- Scratches and some damage to interior wood doors.
- Steel mansard supporting structure needs to be painted.
- HVAC provided by air handling units, boilers, and chillers. Shared with original building.

# CRV

\$28,860,970

Annual Cost to Maintain DMB

\$865,829

### **Vital Statistics**

**Use Type** *Courthouse* 

Floors

Built 2002

Area 99,500 SF

Priority Issues

0.2%

DMB

\$52,600

DMB Excess

\$0

0-5 Year Issues

*FCI* 3.5%

DMB

\$1,002,200

DMB Excess

\$0

1 Year Rating

5 Year Rating

**GOOD** 







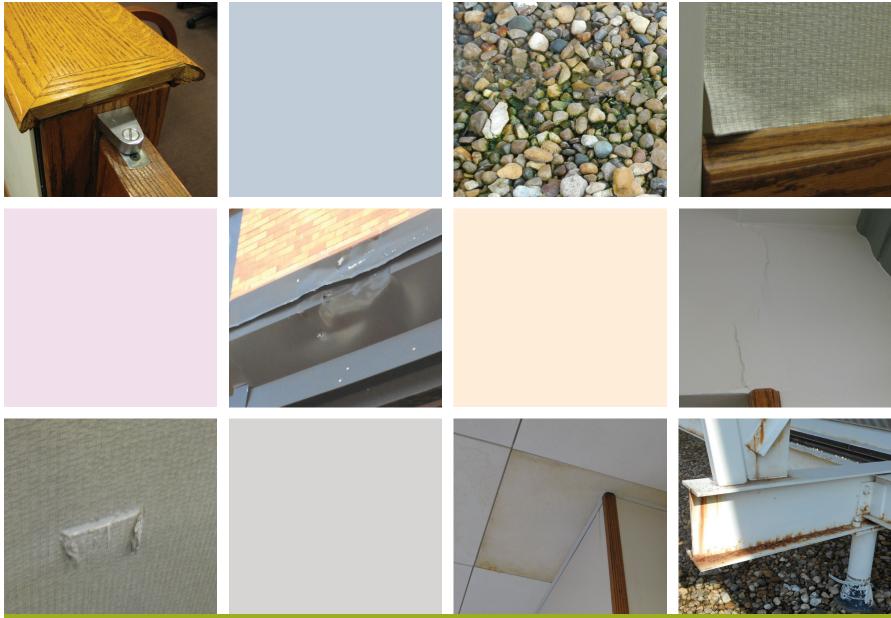








# County of Champaign, Illinois Courthouse Addition





- The building is in various states of disrepair as a result of limited use/abandonment.
- Most of the flooring is damaged or missing; Interior wall finishes are worn and peeling.
- Ceilings tiles and gypsum board ceilings are heavily damaged and deteriorated.
- Fire doors in basement do not meet code requirements.
- There is mold present at areas of failing roof.
- Landscaping is overgrown and encroaching on the building; organic material in gutters.
- Water infiltration and efflorescence on exterior brick.
- Asphalt roofing requires total replacement.
- Roof structure needs to be replaced in several areas.
- All MEP infrastructure requires replacement.
- Spaces served by 4 pipe fan coil units that are nearing end of useful life.

**CRV** \$23,415,000

Annual Cost to Maintain DMB

\$702,450

### **Vital Statistics**

Use Type Tactics Training

Floors Built Area 3 1916,1920 105,000 SF 1936

<b>Priority Issues</b>	0-5 Year Issues
FCI	FCI
33.5%	43.3%
DMB	DMB
\$7,815,000	\$10,138,000
DMB Excess	DMB Excess
\$6,680,250	\$8,967,250

1 Year Rating

5 Year Rating

**POOR** 

POOR















# County of Champaign, Illinois ILEAS Original Building

















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# County of Champaign, Illinois ILEAS Training Center



**Observation Highlights:** 

- This building has a back-up generator.
- Exterior brick planters are cracked.
- Some exterior walkways are cracked and pose tripping hazards.
- Two wings require interior finish upgrade.
- Grout in tile flooring is stained, some tile broken on walls.
- galvanized piping nearing the end of its useful life.
- VCT is stained and damaged at tactical areas.
- Exterior stone sealant is deteriorated, signs of water penetration.
- Exterior window storefront panels, mullion end caps missing and glass is cracked.
- Organic material found inside facility.
- Spaces served by 4 pipe fan coil units that are nearing end of useful life.

**CRV** \$21,243,099

Annual Cost to Maintain DMB \$637,293

### **Vital Statistics**

**Use Type** *Tactics Training/Offices* 

Floors Built Area
2 1971 95,436 SF
Renovated
2008

<b>Priority Issues</b>	0-5 Year Issues
FCI	FCI
1.6%	5.1%
DMB	DMB
\$332,000	\$1,093,000
DMB Excess	DMB Excess

1 Year Rating

\$0

5 Year Rating FAIR

\$30,845











# County of Champaign, Illinois ILEAS Training Center



















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- This building has a back-up generator.
- Roof and soffit replacement needed at portion of facility.
- Downspouts are in need of repair, many are dented or loose.
- Parking lot recently resurfaced and is in good condition.
- Minor brick repair and sealant replacement required.
- Sidewalks cracked and damaged in places.
- Interior wall finishes in generally good condition.
- Exterior insulation is heavily damaged or missing.
- Roofing membrane in fair condition, Pod 100 and 200 need to be replaced.
- Served by small DX cool, gas heat RTUs nearing end of useful life.

**CRV** \$19,600,297

Annual Cost to Maintain DMB

\$588,009

### **Vital Statistics**

**Use Type**Office Building/Recreation

Floors Built Area
2 1970 93,060 SF
Renovated
1999

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 3.6%
 9.4%

 DMB
 DMB

 \$713,000
 \$1,841,000

 DMB Excess
 DMB Excess

1 Year Rating

\$0

5 Year Rating FAIR

\$860,985











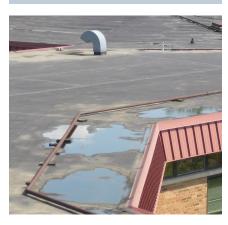


# County of Champaign, Illinois Brookens Administrative Center



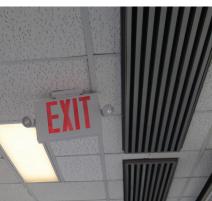














# County of Champaign, Illinois Courthouse



#### **Observation Highlights:**

- This building has a back-up generator.
- Stair treads worn and damaged.
- Carpet in generally good condition, stained and worn in select locations.
- Decorative marble chair rail stained and shows signs of deteriorated grout.
- Drywall finishes in good condition, some damage at corners and window jambs.
- Asphalt shingles in good condition.
- Wood steps and platform on roof heavily deteriorated and need to be replaced.
- Roof ballast missing and uneven in locations.
- Exterior brick and stone in generally good condition, some cracks and damaged stone.
- EPDM roof requires replacement.
- HVAC provided by air handling units, boilers, and chillers. Shared with addition.

**CRV** \$13,586,120

Annual Cost to Maintain DMB

\$407,584

### **Vital Statistics**

Use Type *Courthouse* 

Floors Built Area
4 1901 46,839 SF
Renovated
2002

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 0.7%
 4.0%

 DMB
 DMB

 \$99,300
 \$548,300

1 Year Rating

5 Year Rating

**GOOD** 















# County of Champaign, Illinois Courthouse

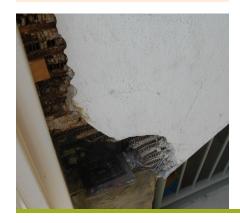
















# County of Champaign, Illinois Adult Detention Facility



Observation Highlights:

- This building has a back-up generator.
- Overall the building is in fair condition.
- Interior sealed concrete is heavily worn with some large cracks.
- Metal doors are scratched and dented.
- Cell doors show signs of deterioration and impact damage.
- Floor drains are heavily rusted and filled with debris.
- Sally port doors are oversized and prone to failure.
- Security system is outdated and needs to be replaced.
- Paint finishes are worn and deteriorating.
- Carpeting and millwork is heavily worn with some staining.
- Served by four mechanical units installed in two rooftop penthouses.

**CRV** \$12,194,010

Annual Cost to Maintain DMB \$365,820

### **Vital Statistics**

Use Type County Jail

**Floors** Built Area 1996 57,000 SF

**Priority Issues** 0-5 Year Issues *FCI FCI* 2.5% 13.9% DMBDMB\$304,000 \$1,695,000 DMB Excess DMB Excess \$0 \$1,085,300

1 Year Rating

5 Year Rating

**POOR** 

















# County of Champaign, Illinois Adult Detention Facility





- This building has a back-up generator.
- Original mechanical equipment requires replacement.
- Masonry joint deterioration, minor cracking, and plant growth.
- Major brick efflorescence on walls around building and screen walls.
- Stone parapet stained, possible moisture penetration.
- Exterior metal doors have deteriorated.
- Sun screen at ceiling enclosure in recreation area is heavily damaged.
- VCT adhesive failed and tiles are missing.
- Interior CMU cracked in multiple locations.
- Served by two boilers and a chiller original to building.
- Cooling tower leaks and is not used.

**CRV** \$11,766,150

Annual Cost to Maintain DMB \$352,985

### **Vital Statistics**

Use Type
County Jail

Floors Built Area 2 1980 55,000 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 7.8%
 17.3%

 DMB
 DMB

 \$919,000
 \$2,033,800

 DMB Excess
 DMB Excess

 \$330,693
 \$1,445,493

1 Year Rating

FAIR

5 Year Rating

**POOR** 















# County of Champaign, Illinois Sheriff / Correctional Center



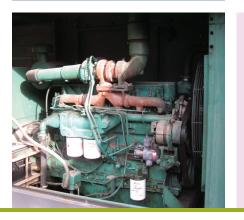














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- This building has a back-up generator.
- Overall, building is in very good condition.
- Minor cracking and efflorescence at exterior precast panels.
- Water infiltration at roof parapet walls due to exposed steel and cracked panels.
- Metal roof in good condition. Sealant replacement recommended.
- Mechanical systems in good condition with minor repairs needed.
- Power and data sufficient for current needs.
- Most interior finishes still in good condition. Minor updating and repairs recommended.
- Parking lot recently resealed. Concrete pathways in good condition.
- No deficiencies noted in structural system.
- Offices served by small blower coil units, maintenance exhausted by gas fired MAU's

**CRV** \$8,890,666

Annual Cost to Maintain DMB

\$266,720

### **Vital Statistics**

Use Type
Service Garage

Floors Built Area 2 2007 43,975 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 0.1%
 0.8%

 DMB
 DMB

 \$10,200
 \$67,300

 DMB Excess
 DMB Excess

1 Year Rating

\$0

5 Year Rating

\$0

**GOOD** 







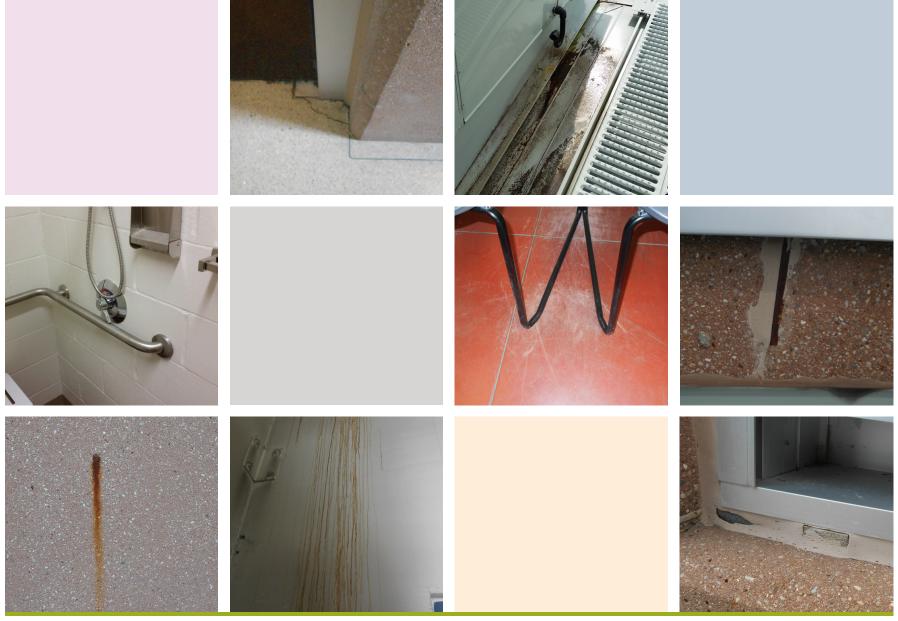








# County of Champaign, Illinois Highway Fleet Maintenance



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- This building has a back-up generator.
- Interior carpet in generally good condition, minor wear and stains from normal use.
- Paint peeling and flaking off interior window sills and jambs.
- Ceiling tiles stained around HVAC vents.
- Heavy wear and staining to VCT in bathrooms.
- Interior metal doors show signs of wear and rust. Trim and frame paint peeling in areas.
- Sealed concrete flooring stained in some places, mostly along walls.
- Vinyl wall base heavily damaged and worn.
- Main entrance threshold worn, VCT chipped.
- Exterior is in generally good condition, some water stains and minor cracks.
- Served by several small rooftop units and are in good condition.

**CRV** \$6,631,830

Annual Cost to Maintain DMB

\$198,955

### **Vital Statistics**

Use Type County Jail

Floors Built 2000

Area 31,000 SF

**Priority Issues** 0-5 Year Issues *FCI FCI* 3.3% 5.7%

DMB\$220,300

\$379,300

DMB Excess \$0

DMB Excess \$47,709

**FAIR** 

DMB

1 Year Rating

5 Year Rating













# County of Champaign, Illinois Juvenile Detention Facility

















- This building has a back-up generator.
- AHU near the end of its useful life.
- Overall, the building is in good condition.
- The interior wall finishes are in generally good condition, normal use wear.
- Carpet and VCT surfaces are in good condition.
- Exterior brick is worn, some sealant damage at windows.
- Railings along accessible ramp are deteriorating.
- Minor cracks on ramp and walk.
- Gutters in good condition, some paint peeling.
- Roof will need replacement.
- Served by AHU's and condensing units, AHU's nearing end of useful life.

**CRV** \$4,128,152

Annual Cost to Maintain DMB

\$123,845

### **Vital Statistics**

Use Type
Operation Center

Floors Built Area
2 1960 19,600 SF
Renovated
2008

<b>Priority Issues</b>	0-5 Year Issues
FCI	FCI
0.1%	8.1%
DMB	DMB
\$3,000	\$336,000
DMB Excess	DMB Excess

1 Year Rating

\$0

5 Year Rating FAIR

\$129,592









# County of Champaign, Illinois Emergency Operation Center (METCAD)

















responsive a

# County of Champaign, Illinois Coroner's Office



### Observation Highlights:

- This building has no back-up generator.
- The building is in generally good condition.
- Ceiling tiles show signs of minor water damage.
- VCT flooring is worn and scratched in places of heavy use. Some joints are separated.
- Drywall is in good condition, minor scratches and cosmetic damage.
- Interior doors show signs of wear and some damage to finishes.
- Exterior wall panels have minor surface damage.
- Insulation along foundation is damaged, missing in places.
- Windows are in good condition.
- Served by packaged AHU at grade. AHU is in good condition.

**CRV** \$1,449,000

Annual Cost to Maintain DMB

\$43,470

### **Vital Statistics**

Use Type Mortuary

Floors Built 2010

Area 5,750 SF

9.7%

DMB

**Priority Issues** 0-5 Year Issues *FCI FCI* 

8.3%

DMB\$120,000 \$140,500

DMB Excess \$47,550

DMB Excess \$68,050

1 Year Rating

**FAIR** 











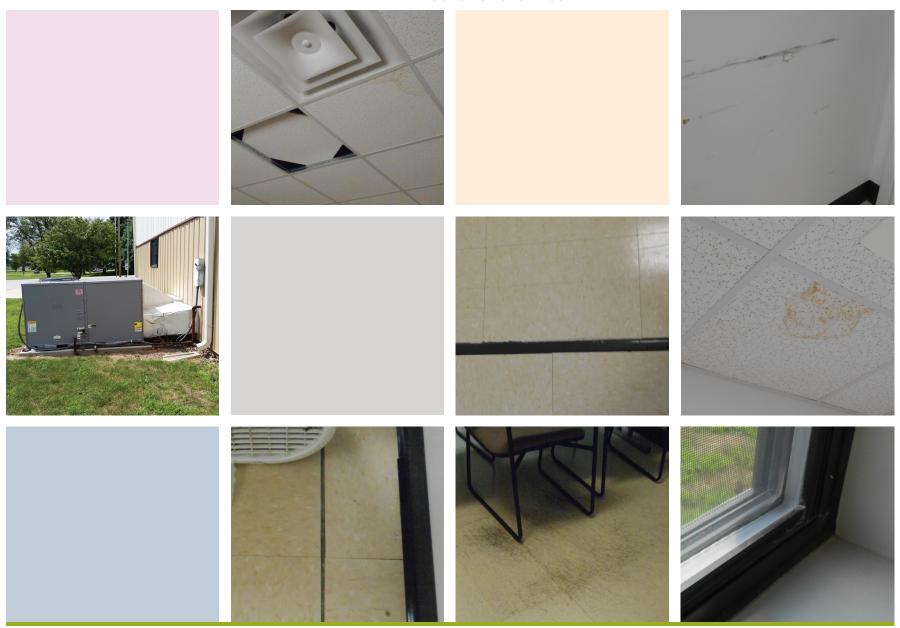
5 Year Rating

**FAIR** 





# County of Champaign, Illinois Coroner's Office



## County of Champaign, Illinois Physical Plant Shop



**Observation Highlights:** 

- Building is overall in good condition.
- Metal wall panels on exterior in generally good condition, minor damage.
- Interior sealed concrete flooring stained and worn.
- VCT flooring heavily scratched and worn, stained in some areas.
- Minor drywall damage, some impact damage and scratches.
- Insulation behind exposed structure stained in places on ceiling and walls.
- Insulation along foundation damaged and missing in places.
- Heavy water damage to landscaping at downspouts.
- Sealant failure along edge between metal panels and concrete.
- Ventialation provdided by roof mounted exhaust fan in good condition.
- Heating provided by three gas fired unit heaters in good condition.

**CRV** \$1,374,342

Annual Cost to Maintain DMB

\$41,230

#### **Vital Statistics**

**Use Type** *Maintenance Shop* 

Floors Built Area 1 2010 11,956 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 0.4%
 2.3%

 DMB
 DMB

 \$5,000
 \$32,000

 DMB Excess
 DMB Excess

\$0

1 Year Rating

5 Year Rating

\$0

**GOOD** 





GOOD

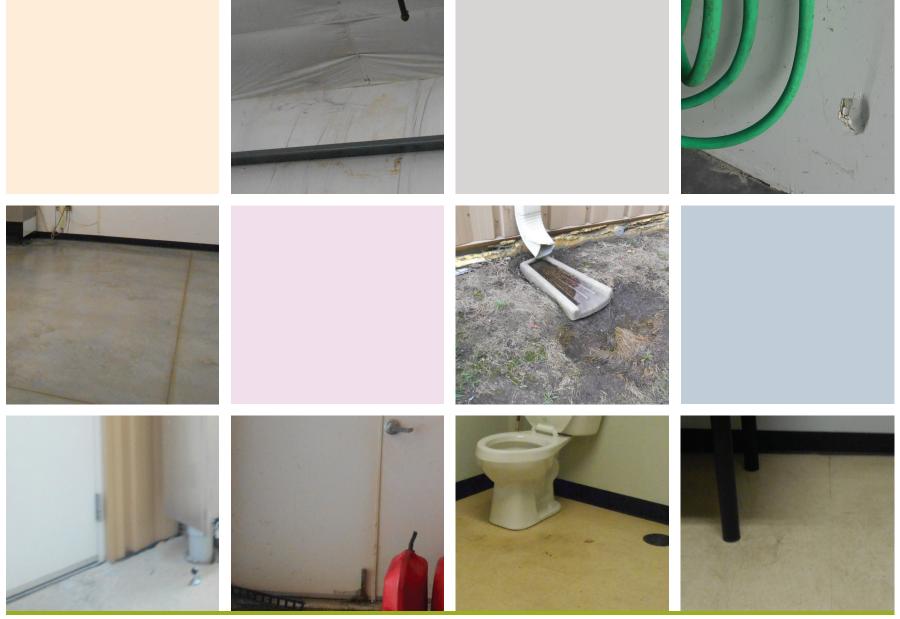








# County of Champaign, Illinois Physical Plant Shop



responsive a

## County of Champaign, Illinois Election Supply



**Observation Highlights:** 

- This building is in good condition.
- Minor dents and cosmetic damage to exterior metal panels.
- Windows are in good condition.
- Foundation insulation is damaged and missing in places.
- Interior sealed concrete flooring is stained and worn.
- Ceiling tiles are in good condition, few missing or stained.
- Rubber wall base missing in places.
- VCT in bathroom worn and stained.
- Carpet tiles in good condition.
- Interior drywall and finishes in good condition.
- HVAC provided by unit mounted on grade

**CRV** \$677,630

Annual Cost to Maintain DMB

\$20,329

#### **Vital Statistics**

Use Type
Election Supply

Floors Built Area 2010 5,895 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 0.0%
 2.5%

 DMB
 DMB

 \$0
 \$16,700

1 Year Rating

5 Year Rating

**GOOD** 





GOOD







# County of Champaign, Illinois Election Supply



responsive a



**Observation Highlights:** 

- Overall the building is in fair condition.
- All metal in the building is deteriorated, some has completely deteriorated.
- Rusted metal is staining surrounding concrete surfaces.
- Most concrete surfaces, mainly by the entrance, are pitted and have exposed aggregate.
- Exposed wood at entrance is deteriorated.
- Asphalt shingles are in generally good condition.
- Interior wood dome structure is in good condition.
- Concrete seals around exterior are worn and deteriorated.
- Standing water around foundations.

**CRV** \$667,590

Annual Cost to Maintain DMB

\$20,028

#### **Vital Statistics**

**Use Type** *Salt Dome* 

Floors Built 2005

**Area** 7,854 SF

Priority Issues
FCI FCI
3.0% 24.9%

DMB DMB

\$20,000 \$166,050

DMB Excess **\$0** 

\$132,671

1 Year Rating

5 Year Rating

DMB Excess

**GOOD** 

POOR







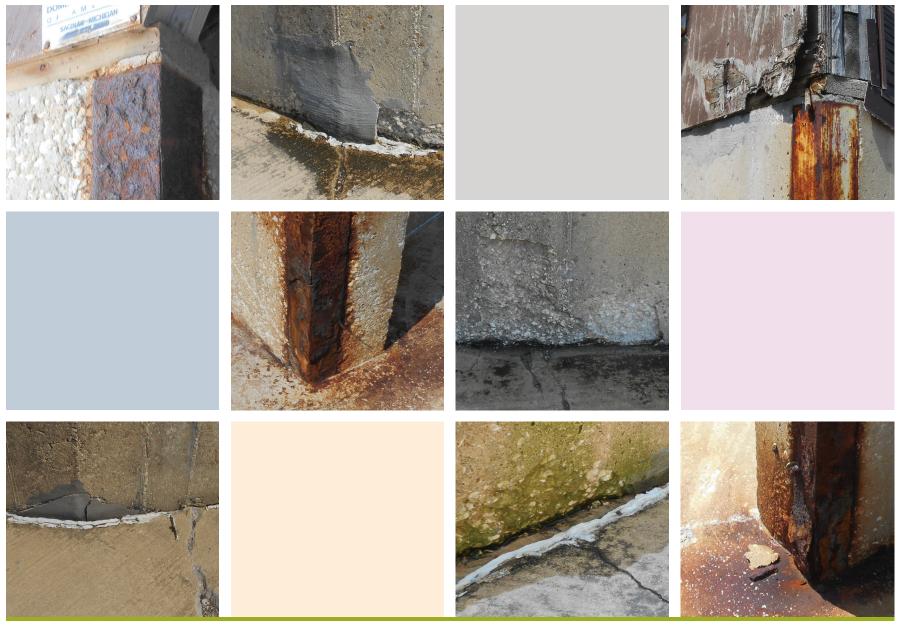








# County of Champaign, Illinois Highway Salt Dome



### County of Champaign, Illinois Animal Control



#### **Observation Highlights:**

- This building has no back-up generator.
- Exterior metal wall panels have impact damage in multiple locations.
- Downspouts are in good condition, minor damage.
- Exterior wood door trim is deteriorated, paint peeling.
- Threshold sealants are failed.
- Metal doors are scratched and worn.
- Ceiling tiles are in fair condition, some large stains in places.
- Sealed concrete flooring is stained and worn.
- Overhead doors have impact damage on the exterior.
- Windows are in fair condition, some deterioration around edges of window frames.
- HVAC provdided by two packaged AHU's on grade and are in good condition.

**CRV** \$517,275

Annual Cost to Maintain DMB

\$15,518

#### **Vital Statistics**

Use Type
Animal Control

Floors Built 2005

Area 4,500 SF

Priority Issues
FCI
FCI
FCI

0.5% 36.1%

*DMB DMB* \$2,400 \$186,900

1 Year Rating

5 Year Rating

**GOOD** 

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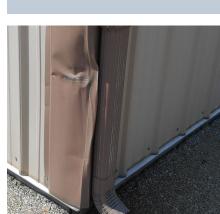




# County of Champaign, Illinois Animal Control



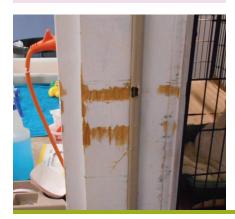














### County of Champaign, Illinois ILEAS Boiler House



**Observation Highlights:** 

- The building envelope is severely deteriorated and requires reconstruction.
- Landscaping is overgrown and encroaching on the building.
- There is water infiltration and efflorescence on exterior brick.
- Gutters contain organic material.
- With the exception of one boiler, the mechanical systems should be completely replaced.
- Adjacent concrete and paving is cracked and deteriorated.
- Brick joints are deteriorated or missing; bricks are loose in places.
- Wood trim is heavily damaged and deteriorated.
- Asphalt shingles are damaged and missing.
- Roofing and roof structure require replacement.

**CRV** \$480,000

Annual Cost to Maintain DMB

\$14,400

#### **Vital Statistics**

Use Type
Central Plant

Floors Built Area 1920s 1,200 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 38.5%
 53.1%

 DMB
 DMB

 \$185,000
 \$255,000

 DMB Excess
 DMB Excess

 \$161,000
 \$231,000

1 Year Rating

5 Year Rating

**POOR** 

**POOR** 















## County of Champaign, Illinois ILEAS Boiler House















responsive ale

### County of Champaign, Illinois Sheriff Garage



**Observation Highlights:** 

- Exterior door finishes deteriorated at base of doors.
- Exterior wall panels in fair condition, minor damage and deterioration.
- Downspouts damaged, finish worn and integrity compromised.
- Soffits and gutters rusted, paint deteriorated.
- Perimeter sealant/patch at concrete joints failed.
- Weatherstripping at overhead doors failed. Trim broken and missing.
- Windows are in good condition.
- Gaps in metal panels at penetration locations, require sealant.
- Interior insulation panels worn, some impact damage.
- Concrete flooring heavily worn and pitted.

**CRV** \$390,000

Annual Cost to Maintain DMB

\$11,700

#### **Vital Statistics**

Use Type Storage

Floors Built 2007

Area 7,800 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 12.8%
 23.4%

 DMB
 DMB

 \$49,800
 \$91,400

 DMB Excess
 DMB Excess

 \$30,300
 \$71,900

1 Year Rating

5 Year Rating

**POOR** 

POOR







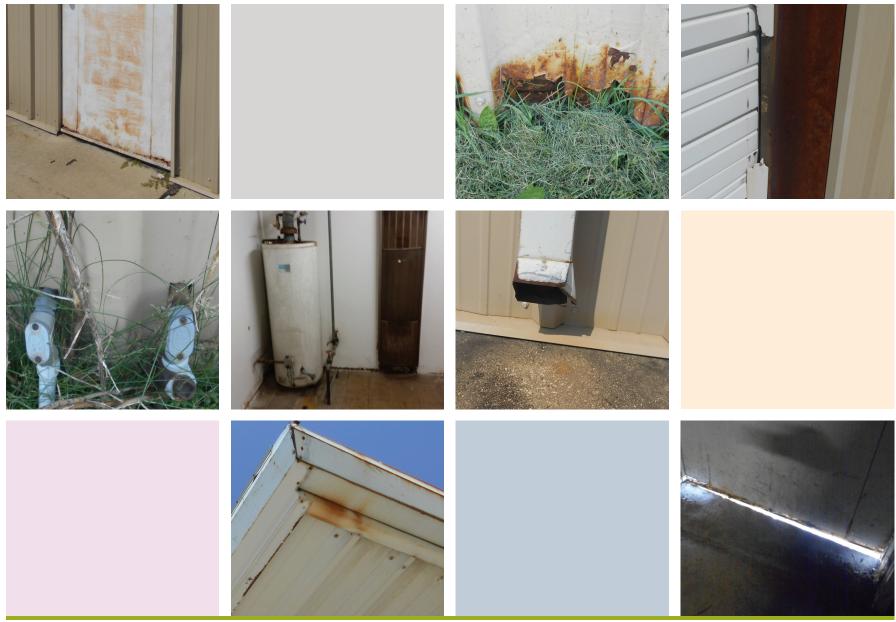








# County of Champaign, Illinois Sheriff Garage



responsive ale





**Observation Highlights:** 

- The garage overall is in fair condition.
- Concrete flooring stained and worn, minor cracks.
- Exterior door finishes and frames are deteriorated and rusted at base.
- Fiberglass overhead doors are damaged, panels cracked and kicked-in at base of frame.
- Overhead door jambs are dented and warped.
- Moisture damage and rust at base of metal wall panels.
- Metal wall panel seams dented and peeling apart.
- Several large tears in metal wall panels.
- Sealant at base of metal wall panels along concrete deteriorated.
- Bollards damaged from impact.
- No ventilation or heating present. No oil interceptor at trench drains.

**CRV** \$216,000

Annual Cost to Maintain DMB

\$6,480

#### **Vital Statistics**

Use Type *Storage* 

Floors Built 2007

Area 4,320 SF

Priority Issues 0-5 Year Issues FCI FCI

0.0%

DMB Excess DMB Excess

\$0 \$3,200

1 Year Rating

5 Year Rating
FAIR

6.5%

**GOOD** 

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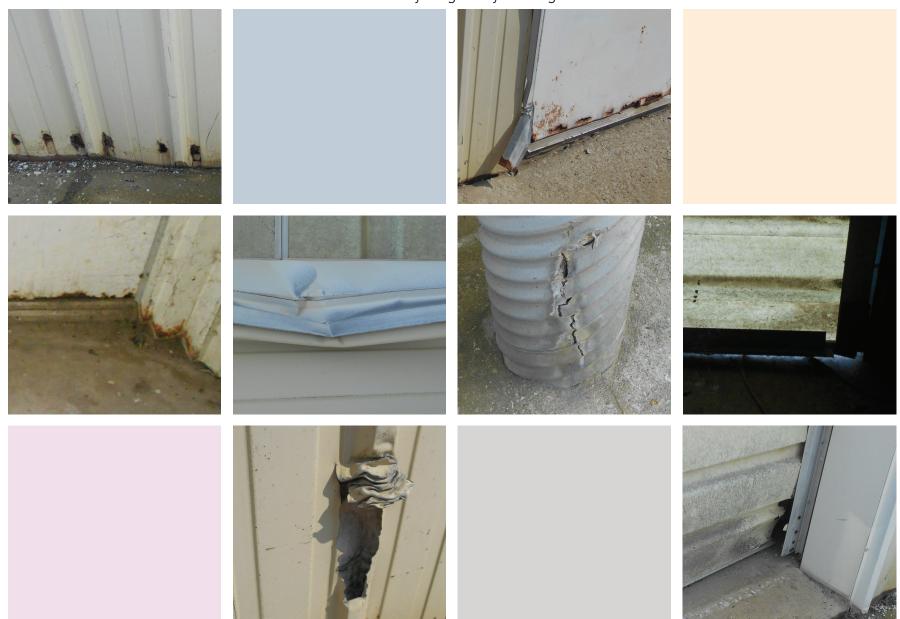








# County of Champaign, Illinois County Highway Garage



esponsive a

## County of Champaign, Illinois Nursing Home Storage



Observation Highlights:

- Building is in overall good condition.
- Sealant failure at base of metal wall panels along concrete.
- Insulation along foundation broken, damaged and missing in places.
- Metal panels dented at corner.
- Interior drywall in fair condition, minor scratches; one puncture found.
- Sealed concrete flooring in good condition, minor wear.
- Interior cage in good condition.
- No rubber base at bottom of drywall.
- Exterior door in good condition.
- Exposed structure and insulation in good condition.
- No ventilation. Heat provided by ceiling mounted gas fired unit heater.

**CRV** \$165,988

Annual Cost to Maintain DMB

\$4,980

#### **Vital Statistics**

Use Type Warehouse

Built Floors 2010

Area 1,444 SF

**Priority Issues** 0-5 Year Issues *FCI FCI* 0.0% 0.4%

> DMBDMB\$0 \$600

DMB Excess \$0

1 Year Rating

5 Year Rating

DMB Excess

\$0

**GOOD** 







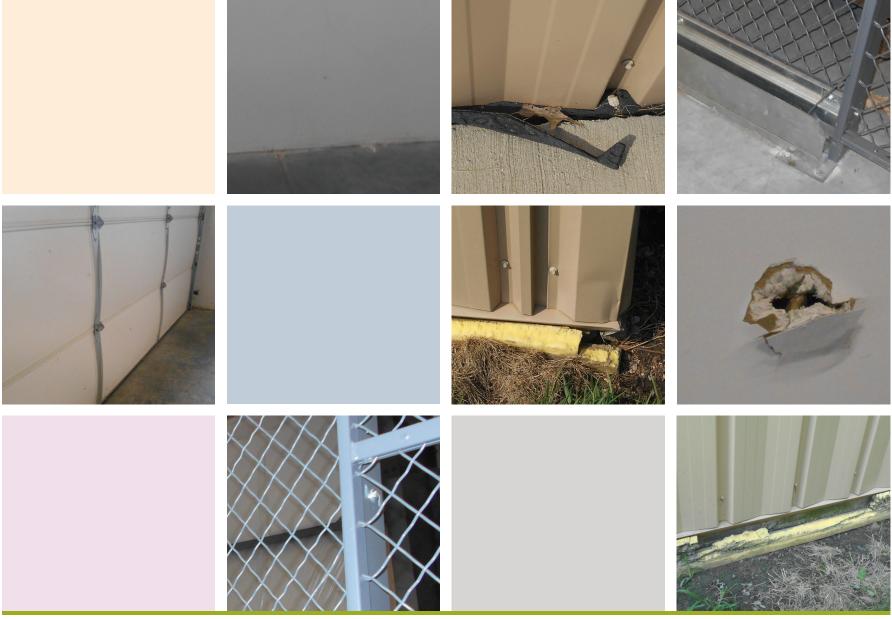
GOOD







# County of Champaign, Illinois Nursing Home Storage





**Observation Highlights:** 

- Concrete flooring is in fair condition, some stains and wear from use.
- A few large cracks in concrete flooring.
- Interior and exterior deterioration on metal panel.
- Metal downspouts deteriorated, leaks found at joints.
- Exterior trim bent and damaged at door openings.
- Exterior doors deteriorated and damaged at base.
- Interior steel structure worn and deteriorated.
- Punctures, bent and damaged metal panels along base of exterior.
- Oil interceptor at trench drains and exhaust fan installed.
- No ventilation. Ceiling mounted gas fired unit heater nearing end of useful life

**CRV** \$144,000

Annual Cost to Maintain DMB

\$4,320

#### **Vital Statistics**

Use Type Storage

Floors Built 2009

**Area** 2,880 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 17.4%
 35.1%

 DMB
 DMB

 \$25,000
 \$50,500

 DMB Excess
 DMB Excess

 \$17,800
 \$43,300

1 Year Rating

5 Year Rating

**POOR** 

POOR





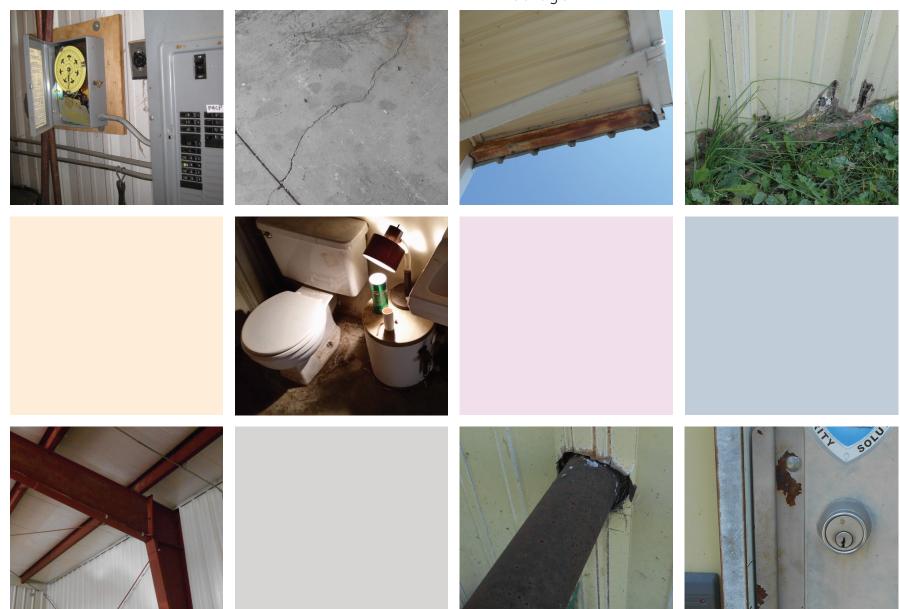














**Observation Highlights:** 

- ILEAS Garage 2 is connected to Sheriff's Garage.
- The building is in overall fair condition.
- Sealed concrete flooring is scratched and worn in places.
- Doors are worn with some deterioration.
- Finish on interior exposed structure is worn and deteriorated.
- Metal wall panels are in fair condition.
- Gutters and downsputs are deteriorated.
- Roof overhang is deteriorated and has impact damage.
- Organic plant growth in cracks along exterior concrete and base of building.
- Sealant deterioration in places along concrete.
- No ventilation. Heat provided by ceiling mounted gas fired unit heater.

**CRV** \$144,000

Annual Cost to Maintain DMB \$4,320

#### **Vital Statistics**

Use Type
Parking Garage

Floors Built Area 2007 2,880 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 0.0%
 5.9%

 DMB
 DMB

 \$0
 \$8,500

 DMB Excess
 DMB Excess

1 Year Rating

\$0

5 Year Rating FAIR

\$1,300

**GOOD** 

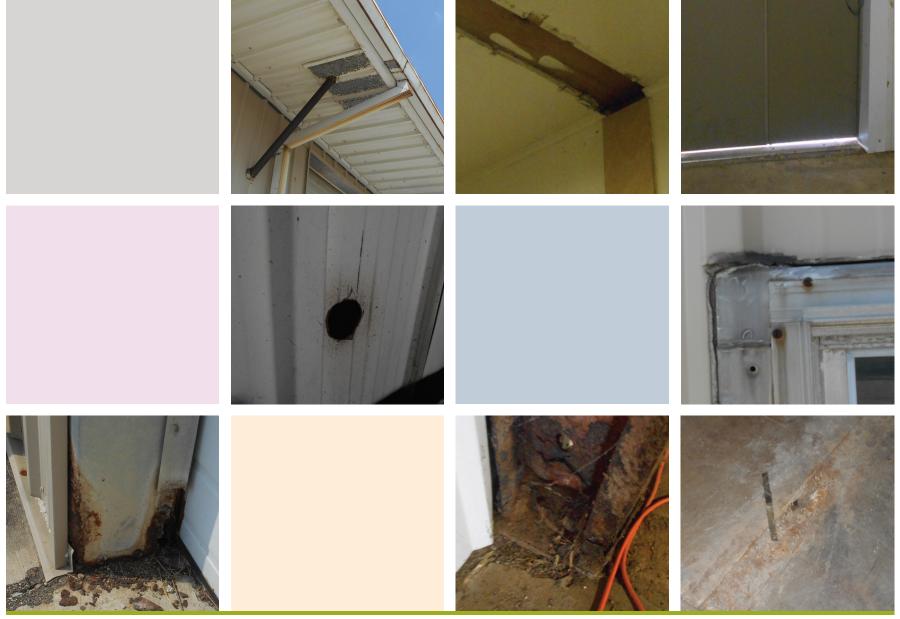












esponsive a



**Observation Highlights:** 

- ILEAS Garage 3 is connected to County Highway Garage.
- The building is in overall fair condition.
- Sealed concrete flooring is scratched and worn in places.
- Finish on interior exposed structure is worn and deteriorated.
- Metal wall panels are in fair condition.
- Doors have some deterioration and are in fair condition.
- Interior structure is in good condition, some deterioration.
- Overhead door is in fair condition, minor impact damage.
- Organic plant growth in cracks along exterior concrete.
- Sealant deterioration in places along concrete.
- No ventilation. Heat provided by ceiling mounted gas fired unit heater.

**CRV** \$144,000

Annual Cost to Maintain DMB \$4,320

#### **Vital Statistics**

**Use Type** *Parking Garage* 

Floors Built Area 2007 2,880 SF

 Priority Issues
 0-5 Year Issues

 FCI
 FCI

 2.8%
 7.6%

 DMB
 DMB

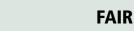
 \$4,000
 \$11,000

 DMB Excess
 DMB Excess

1 Year Rating

\$0

GOOD













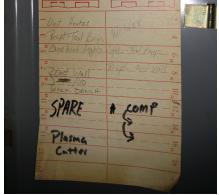
\$3,800

5 Year Rating





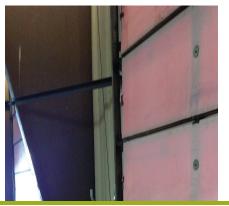
















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### County of Champaign, Illinois Salt Dome Garage



**Observation Highlights:** 

- The building overall is in fair condition.
- Soffits are not protected, raw wood exposed to elements.
- Asphalt shingles are in fair condition.
- Worn and deteriorated paint at roof edge trim.
- Paint overall is in fair condition.
- Overhead door is in good condition, minor impact damage.
- Some cracks in concrete surfaces.
- Interior concrete flooring is heavily worn.
- No ventilation. Heat provided by ceiling mounted gas fired unit heater in good condition.

**CRV** \$119,000

Annual Cost to Maintain DMB

\$3,570

#### **Vital Statistics**

**Use Type** *Warehouse* 

Floors Built 1992

Area 1,400 SF

Priority Issues
FCI
0.8%

DMB

O-5 Year Issues
FCI
44.5%

DMB

\$1,000 \$53,000

DMB Excess \$0

\$47,050

1 Year Rating

5 Year Rating

DMB Excess

**GOOD** 

POOR







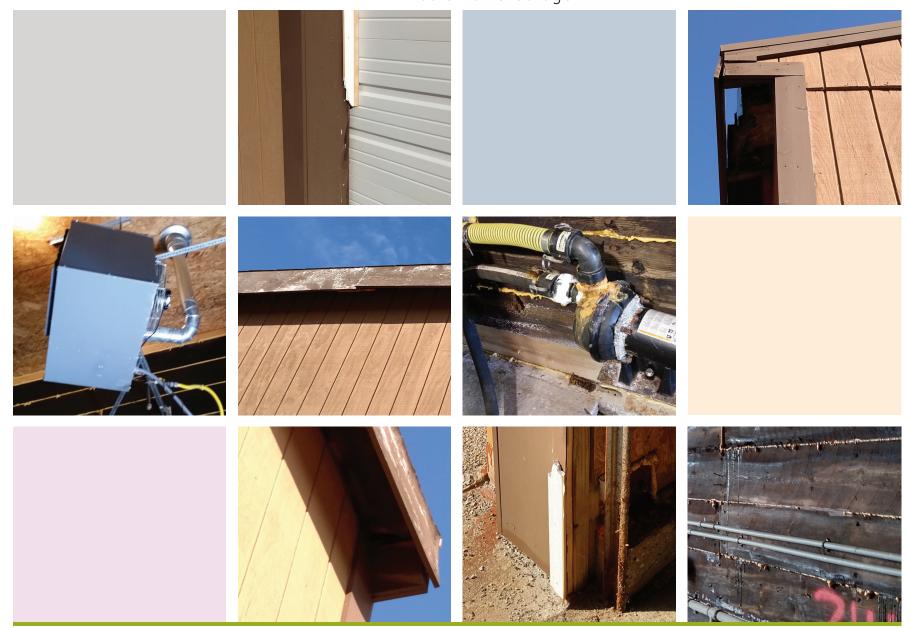








# County of Champaign, Illinois Salt Dome Garage



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**Observation Highlights:** 

- ILEAS Garage 1 is connected to EMA Garage.
- The building is in overall good condition.
- Sealed concrete flooring is scratched and worn in places. Finish on interior exposed structure is worn and deteriorated.
- Overhead door and frame is in fair condition.
- Metal wall panels are in good condition.
- Roof system is in good condition.
- Gutters and downsputs are in good condition.
- Some plant growth in cracks along exterior concrete and pavement.
- Sealant deterioration in places along concrete.
- No ventilation. Heat provided by ceiling mounted gas fired unit heater.

**CRV** \$72,000

Annual Cost to Maintain DMB

\$2,160

#### **Vital Statistics**

Use Type Parking Garage

**Floors** Built Area 2007 1,440 SF

**Priority Issues** 0-5 Year Issues *FCI FCI* 2.8% 6.9% DMBDMB\$2,000 \$5,000

DMB Excess DMB Excess \$0 \$1,400

1 Year Rating

5 Year Rating **FAIR** 

**GOOD** 























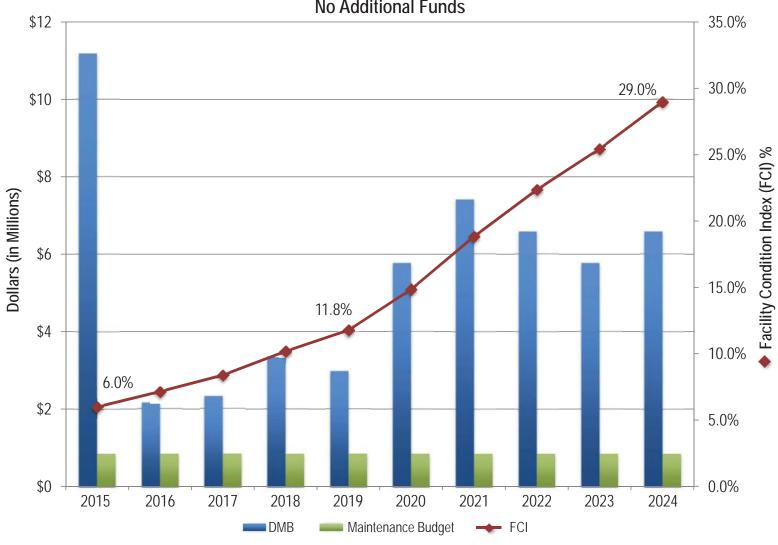




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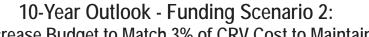


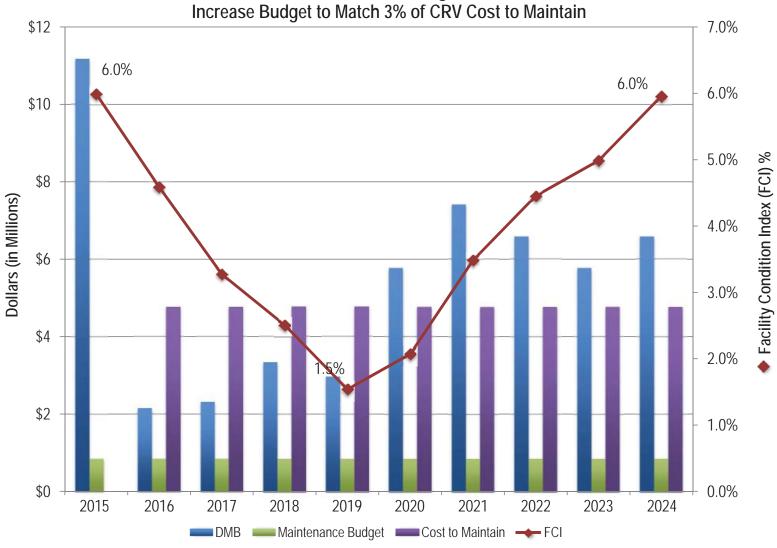
#### 10-Year Outlook - Funding Scenario 1: No Additional Funds





Data Analysis - Charts





10-Year Outlook - Funding Scenario 3: Without ILEAS Original Building, ILEAS Boiler House and Sheriff / Correctional Center \$7 30.0% \$6 24.6% 25.0% \$5 Facility Condition Index (FCI) % 20.0% Dollars (in Millions) \$4 15.0% \$3 10.0% \$2 6.3% 5.0% \$1 1.5% 0.0% \$0 2018 2021 2022 2024 2015 2016 2017 2019 2020 2023 ■ Maintenance Budget ■ Demolition of ILEAS → FCI

## County of Champaign, Illinois Data Analysis - Adjusted Facilities Overview

<b>Building Name</b>	CRV	0-5 Year DMB	5-Year FCI
Nursing Home	\$29,647,207	\$1,787,400	6.0% 😑
Courthouse Addition	\$28,860,970	\$1,002,200	3.5% 📀
ILEAS Original Building	\$0	\$0	0% 💿
ILEAS Training Center	\$21,243,099	\$1,093,000	5.1% 😑
Brookens Admin Center	\$19,600,297	\$1,841,000	9.4% 😑
Courthouse	\$13,586,120	\$548,300	4.0% 😊
Adult Detention Facility	\$12,194,010	\$1,695,000	13.9% 😵
Sheriff / Correctional Center	\$0	\$0	0% 📀
Highway Fleet Maintenance	\$8,890,666	\$67,300	0.8% 💿
Juvenile Detention Center	\$6,631,830	\$379,300	5.7% 😑
Emergency Operation Center	\$4,128,152	\$336,000	8.1% 😑
Coroner's Office	\$1,449,000	\$140,500	9.7% 😑
Physical Plant Shop	\$1,374,342	\$32,000	2.3% 😉
Election Supply	\$677,630	\$16,700	2.5% 📀
Highway Salt Dome	\$667,590	\$166,050	24.9% 😵
Animal Control	\$517,275	\$186,900	36.1% 😵
ILEAS Boiler House	\$0	\$0	0% 📀
Sheriff Garage	\$390,000	\$91,400	23.4% 😵
County Highway Garage	\$216,000	\$14,000	6.5% 😑
Nursing Home Storage	\$165,988	\$600	0.4% 📀
EMA Garage	\$144,000	\$50,500	35.1% 😵
ILEAS Garage 2	\$144,000	\$8,500	5.9% 😑
ILEAS Garage 3	\$144,000	\$11,000	7.6% 😑

#### **Overall CRV**

\$150,863,177

Annual Cost to Maintain DMB \$4,525,895

#### **Vital Statistics**

Number of Buildings	22
Oldest Building	1901
Newest Building	2010
Average Year Built	1988
Average Cost / SF	\$223

0-5 Year Issues

FCI

6.3%

DMB

\$9,525,650

DMB Excess

\$1,982,491

**FCI** 

6.3%

Rating

FAIR







### County of Champaign, Illinois Data Analysis - Adjusted Facilities Overview

<b>Building Name</b>	CRV	0-5 Year DMB	5-Year FCI
Salt Dome Garage	\$119,000	\$53,000	44.5% 🕴
ILEAS Garage 1	\$72,000	\$5,000	6.9% 😑
Total	\$150,863,177	\$9,525,650	6.3% 🔞

#### **Overall CRV**

\$150,863,177

Annual Cost to Maintain DMB \$4,525,895

#### **Vital Statistics**

Number of Buildings	22
Oldest Building	1901
Newest Building	2010
Average Year Built	1988
Average Cost / SF	\$223

0-5 Year Issues

FCI

6.3%

DMB

\$9,525,650

DMB Excess

\$1,982,491

**FCI** 

Rating

6.3%







