

# Site Accessibility Evaluation



## **Solon Shed**

**4486 Sutliff Rd NE  
Solon, IA 52333**

**ADA Only**

***Inspection Date: 04/24/2019***

***Inspector: Shelley Zuniga***

**Prepared By**

**WT Group**

Engineering with Precision, Pace & Passion.

**(224) 293 - 6451**

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February 3, 2019

Donna Brooks  
Grants Assistant  
Johnson County  
913 S. Dubuque St.  
Iowa City, IA, 52240

Dear Donna:

Thank you for the opportunity to be of service to you by performing an accessibility evaluation for the Solon Shed located at 4486 Sutliff Rd NE, Solon, IA, 52333. The facility was inspected on 04/24/2019.

We recommended that all barriers that are identified in this evaluation recommended in one of the phases below, be removed as soon as possible. A transition plan should be developed to assist in planning the removal of all barriers. To help with this, we have identified all barriers on a finding by finding basis with a phase identifier as follows:

1 (Phase 1): Should be completed immediately. This category includes findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat.

2 (Phase 2): Should be completed as soon as possible. Includes findings that would remove barriers to the greatest number of people to your goods and services and finding new to the technical standards such as recreation elements

3 (Phase 3): Should be completed as soon as possible, but there may be other items that will provide greater access to persons with disabilities. This category includes findings that have a high financial impact on the entity, are subject to standards not yet final, or involve a partner entity.

4 (Option): Not necessary to complete, because other sites exist that meet Title II requirements for program access, or retrofit is technically infeasible, or variance is a construction tolerance.

5 (Smart Practice): Should be completed but not necessarily required. This category includes findings and or elements that were in compliance with previous editions of the codes and standards but have since changed. This category also includes techniques or elements that are not a part of the federal or state requirements, but are suggested in advisory language, or have been successfully implemented by other entities. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards.

We have applied these priorities to the transition plan to create an order of retrofit for Johnson County sites. The transition plan is an Excel document that is easily modified, should circumstances or priorities change for the County. In addition, it is easily searched in many different ways.

Periodic maintenance to ensure continued accessibility is essential in providing a safe and usable environment. Parking lot markings, signage, door opening pressures, and maintaining clear floor space at doors and other elements and fixtures, available to the public, must be part of an ongoing maintenance schedule.

If you have any questions regarding this report or would like to schedule a meeting with myself and your architect, attorney, or contractor, please feel free to contact me.

Sincerely,  
*Shelley Zuniga*  
Shelley Zuniga

## Parking

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 1

There are no accessible parking stalls.

Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

There are an unknown number of parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of one accessible stall with a minimum of one being designed as van accessible.

### Citation:

2010 ADAS Section: 208.2

1991 ADAAG Section: 4.1.2

### As Built:

gravel lot lacks  
designated parking

### Recommendation:

Create one or more 8' accessible parking stalls, with one 5' adjacent access aisle, with proper signage and striping based on the total number of stalls



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

**Finding #1 Additional Finding Photos**



## EAR

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 2

There is no accessible route between the buildings.

At least one accessible route shall connect accessible buildings, facilities, elements and spaces that are on the same site.

#### Citation:

2010 ADAS Section: 206.2.2

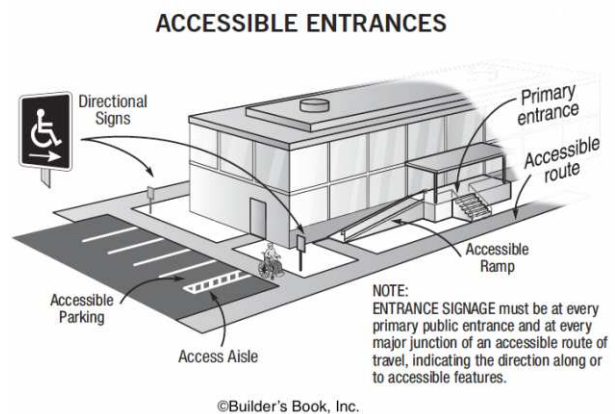
1991 ADAAG Section: 4.1.2

#### As Built:

no exterior AR due to gravel parking lot

#### Recommendation:

Create AR with crushed and compacted stone or similar outdoor material from building to building within the site



**Finding #2 Additional Finding Photos**



## Shed

**Lat: 41.8115400000, Long: -91.4929400000**

### Finding: 3

Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

The threshold has a vertical change greater than 1/4 inch high.

The sweep period for doors with closers shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

Exterior doors are recommended to be maintained at 8.5 lbf as a smart practice. Force is to be measured at the operating hardware or 30 inches from the hinges, whichever is greater.

Hand-activated door opening hardware, handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate. Hardware shall be 34 inches minimum and 48 inches maximum above the finish floor or ground.

#### Citation:

2010 ADAS Section: 404.2.3, 404.2.7, 404.2.4, 404.2.11, 404.2.11 Exception

1991 ADAAG Section: 4.13.1

#### As Built:

entry- knob, 1.5" CIL, deterioration pull side, closes fast, 10#

#### Recommendation:

For all doors along the public circulation route, provide required maneuvering clearance on push and pull side of doors, repair surface in CFS to be firm, stable and slip resistant

For all doors along the public circulation route, repair, bevel, or ramp CILs at door entries to max .25"

For all doors along the public circulation route, inspect, adjust, and maintain closing speed on door closers

For all doors along the public circulation route, inspect, adjust, and maintain 8.5 lbf to open exterior doors as a smart practice

For all doors along the public circulation route, replace hardware with lever hardware or hardware operable without a tight pinch or grasp



Finding #3 Continued



**Finding #3 Additional Finding Photos**



## Shed

**Lat: 41.8115400000, Long: -91.4929400000**

### Finding: 4

Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

Hand-activated door opening hardware, handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate. Hardware shall be 34 inches minimum and 48 inches maximum above the finish floor or ground.

Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

**EXCEPTION:** Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

#### Citation:

2010 ADAS Section: 404.2.3, 404.2.7, 404.2.4, 404.2.11, 404.2.11 Exception

1991 ADAAG Section: 4.13.1

#### As Built:

break room- counter pull side, knob, 29" wide, 45" window, chair back pull side

#### Recommendation:

For all doors along the public circulation route, provide required maneuvering clearance on push and pull side of doors

For all doors along the public circulation route, replace doors with doors having 80" overhead clearance and 32" clear width

For all doors along the public circulation route, replace hardware with lever hardware or hardware operable without a tight pinch or grasp

For all doors along the public circulation route, replace doors with ones having sidelight viewing windows max 43" aff

Finding #4 Continued



**Finding #4 Additional Finding Photos**



## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 5

Gratings are spaced greater than a 1/2 inches in the direction of traffic flow.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

#### Citation:

2010 ADAS Section: 302.3

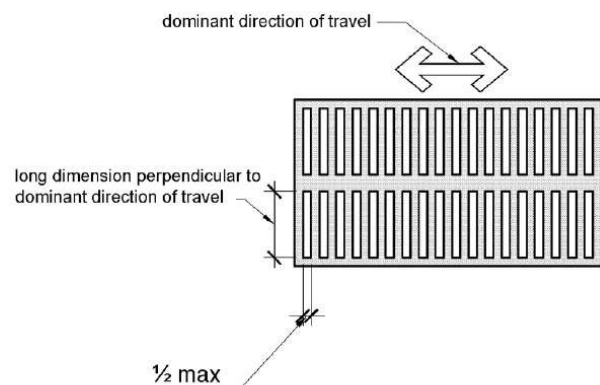
1991 ADAAG Section: 4.5.4

#### As Built:

1" grates in bays,  
separation caused  
larger gaps

#### Recommendation:

Leave as is, grating, integral to the use of the site.



**Finding #5 Additional Finding Photos**



## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 6

The operable part is not accessible because there is not adequate clear floor space for either a forward or side approach.

The clear floor or ground space shall be 30 inches minimum by 48 inches minimum.

#### Citation:

2010 ADAS Section: 305.3

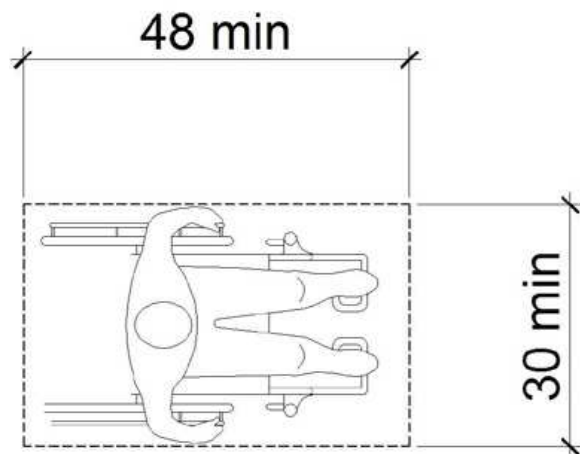
1991 ADAAG Section: 4.2.4.1

#### As Built:

shop- lacks CFS at  
lockout box

#### Recommendation:

For deficit, leave as is, employee work area pursuant to 2010 Standards 106.5 Defined Terms, until an employee with a disability works here





## Shed

**Lat: 41.8115400000, Long: -91.4929400000**

### Finding: 7

There is no accessible route between the main floor and the mezzanine

An accessible route of travel must connect all elements and spaces within a building or facility.

#### Citation:

2010 ADAS Section: 206.2.4

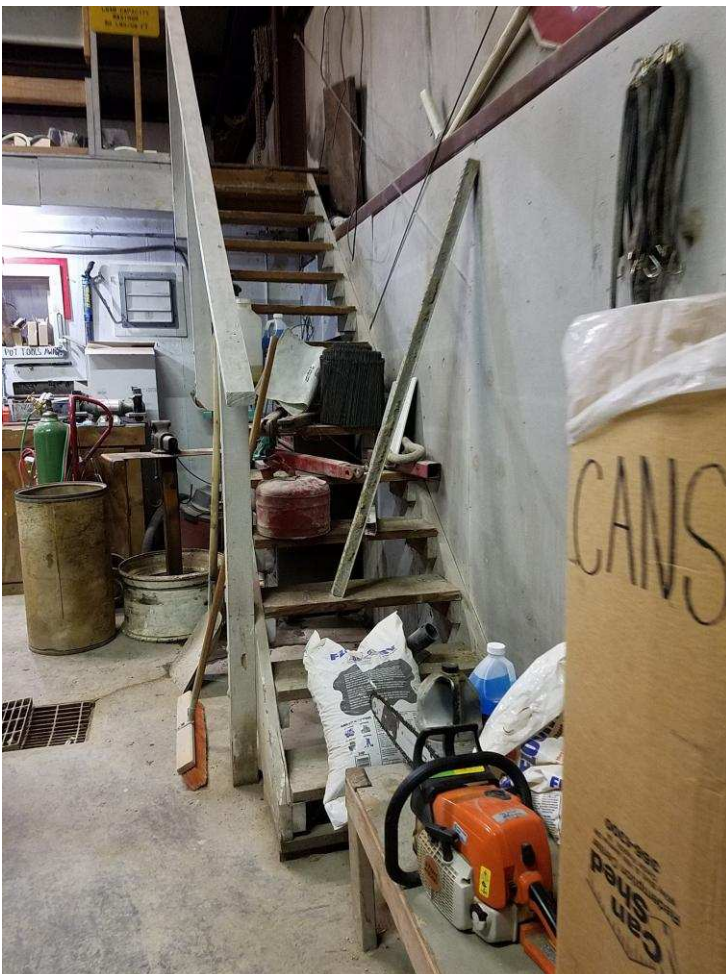
1991 ADAAG Section: 4.1.3

#### As Built:

stairs to mezzanine

#### Recommendation:

No AR to upper level employee area, leave as is, and reassign duties if an employee with disabilities requires access here



## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 8

Compliant knee and toe clearance is not provided at the accessible table.

When seating for persons in wheelchairs is provided at fixed tables or counters, knee spaces at least 27 inches high, 30 inches wide and 19 inches deep shall be provided.

#### Citation:

2010 ADAS Section: 306.3.3

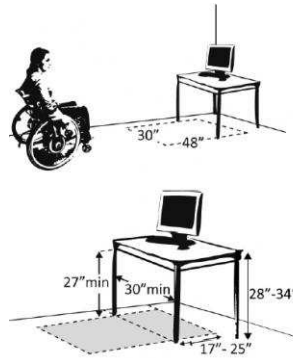
1991 ADAAG Section: 4.32.3

#### As Built:

break room table  
lacks toe clearance

#### Recommendation:

Replace the table with ones providing required knee and toe clearances



## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 9

The sink is not accessible.

A clear floor space at least 30 inches by 48 shall be provided in front of a sink to allow forward approach.

-The clear floor space shall be on an accessible route and shall extend a maximum of 19 inches underneath the sink.

-Sinks shall be mounted with the counter or rim no higher than 34 inches above the finish floor.

-Knee clearance at least 27 inches high, 30 inches wide and 19 inches deep shall be provided.

-Hot water and drain pipes exposed under sinks shall be insulated or otherwise configured so as to protect against contact. There shall be no sharp or abrasive surfaces under sinks.

-Faucet controls not require tight grasping, pinching or twisting of the wrist.

-The force required to activate controls shall be not greater than 5 lb. Lever-operated, push-type and electronically controlled mechanisms are examples of acceptable designs.

-Self-closing valves are allowed if the faucet remains open for at least 10 seconds.

### Citation:

2010 ADAS Section: 606.2

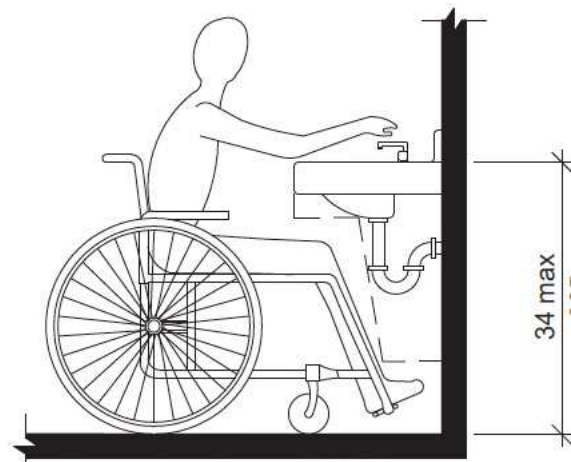
1991 ADAAG Section: 4.24.5

### As Built:

sink height 37"

### Recommendation:

Lower sinks to max 34" aff to front of rim



**Finding #9 Additional Finding Photos**



## Shed

Lat: 41.8115400000, Long: -91.4929400000

## Finding: 10

There is insufficient turning space within this room or space.

The space required for a wheelchair to make a 180-degree turn is a clear space of 60 inches in diameter or a T-shaped space.

### Citation:

2010 ADAS Section: 304.3.1, 304.3.2

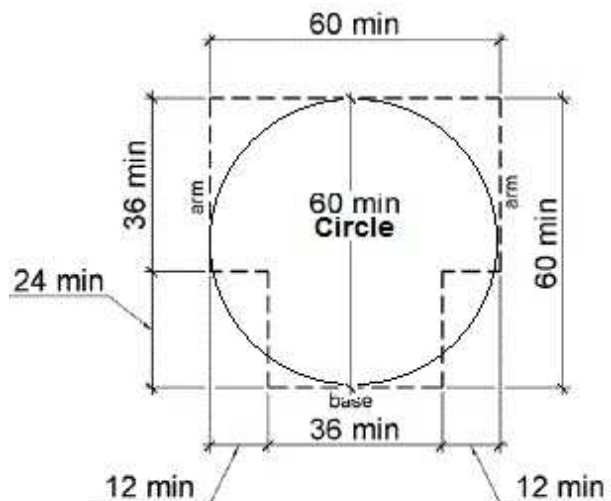
1991 ADAAG Section: 4.2.3\*

### As Built:

break room lacks 36  
and 60 due to  
furniture

### Recommendation:

Relocate obstacles to create turning space in breakroom



## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 11

The operable part is not accessible because there is not adequate clear floor space for either a forward or side approach.

The clear floor or ground space shall be 30 inches minimum by 48 inches minimum.

#### Citation:

2010 ADAS Section: 305.3

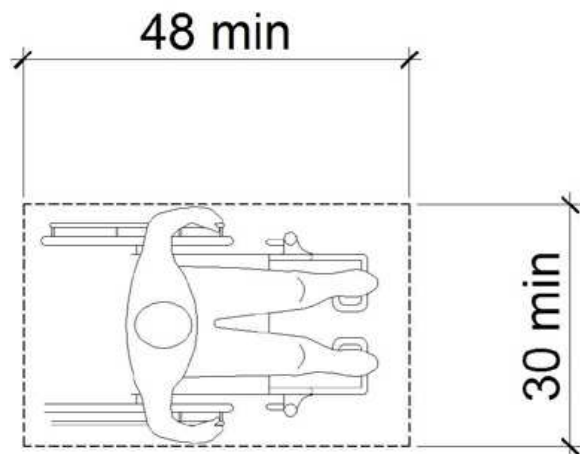
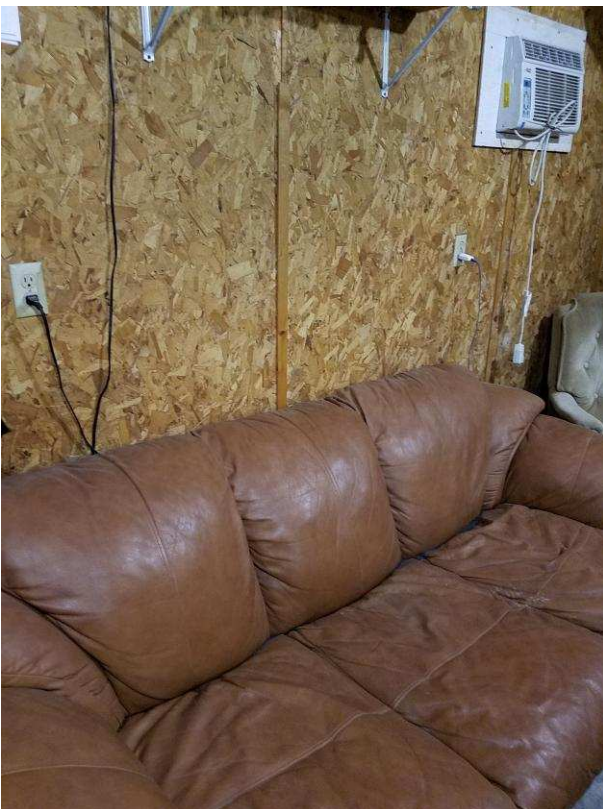
1991 ADAAG Section: 4.2.4.1

#### As Built:

outlets in break room  
lack CFS

#### Recommendation:

For deficit, leave as is, employee work area pursuant to 2010 Standards 106.5 Defined Terms, until an employee with a disability works here



## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 12

The thermostat is positioned too high for either a side or front approach.

Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the finish floor or ground.

Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the finish floor or ground.

### Citation:

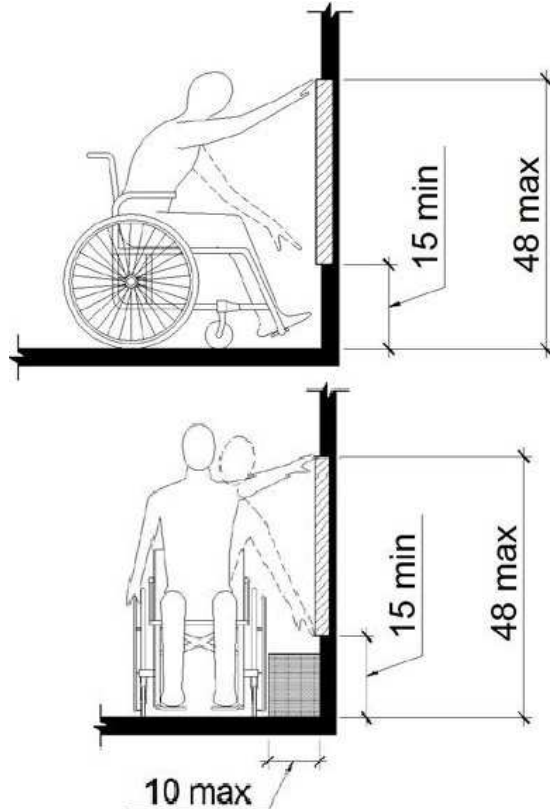
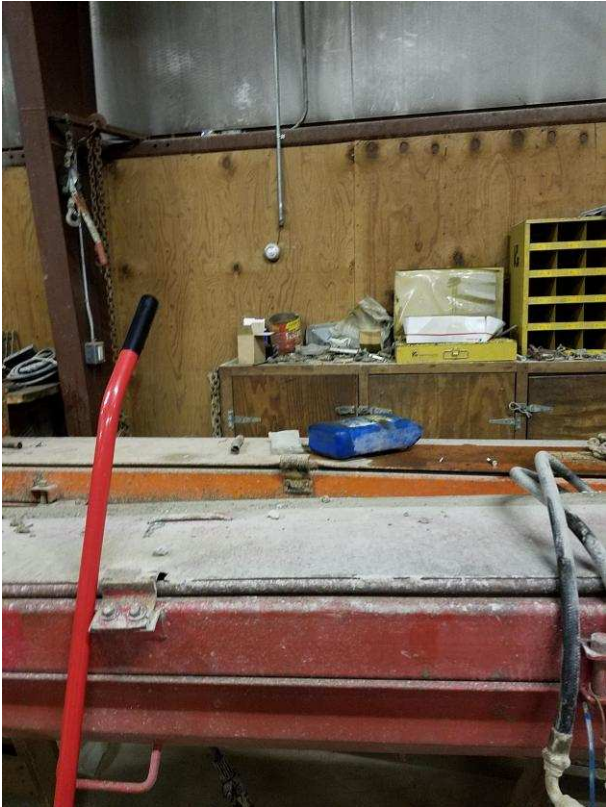
2010 ADAS Section: 308.1

### As Built:

thermostats in main room are too high and lack clear floor space

### Recommendation:

For deficit, leave as is, employee work area pursuant to 2010 Standards 106.5 Defined Terms, until an employee with a disability works here



**Finding #12 Additional Finding Photos**





## Shed

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 13

The knob is not accessible because it requires tight grasping, pinching or twisting of the wrist.

#### Citation:

2010 ADAS Section: 309.4

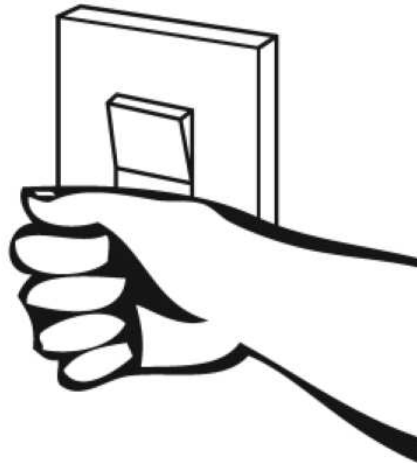
1991 ADAAG Section: 4.27.4

#### As Built:

knob in main room

#### Recommendation:

For deficit, leave as is, employee work area pursuant to 2010 Standards 106.5 Defined Terms, until an employee with a disability works here



**Finding #13 Additional Finding Photos**



## **Restroom**

**Lat: 41.8115400000, Long: -91.4929400000**

### **Finding: 14**

Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

Hand-activated door opening hardware, handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate. Hardware shall be 34 inches minimum and 48 inches maximum above the finish floor or ground.

#### **Citation:**

2010 ADAS Section: 404.2.3, 404.2.7, 404.2.4,  
404.2.11, 404.2.11 Exception

1991 ADAAG Section: 4.13.1

#### **As Built:**

restroom- sink pull  
side, knob, 29" wide

#### **Recommendation:**

For all doors along the public circulation route, provide required maneuvering clearance on push and pull side of doors

For all doors along the public circulation route, replace doors with doors having 80" overhead clearance and 32" clear width

For all doors along the public circulation route, replace hardware with lever hardware or hardware operable without a tight pinch or grasp

Finding #14 Continued



**Finding #14 Additional Finding Photos**



## Restroom

Lat: 41.8115400000, Long: -91.4929400000

### Finding: 15

The restroom is not nearly compliant.

The restroom does not have the required minimum clear floor space or maneuvering clearances for the toilet, The restroom does not have the required minimum clear floor space or maneuvering clearances for the lavatory, The entry door does not contain the required minimum maneuvering spaces on the pull/push sides, The entry door encroach into the required clear floor space for fixtures, Grab bars are missing and/or incorrectly installed, Accessories, such as toilet seat covers, paper towel holders, garbage cans, hand dryers, and mirrors are either too high or without clear floor space or both.

### Citation:

2010 ADAS Section: 603.1

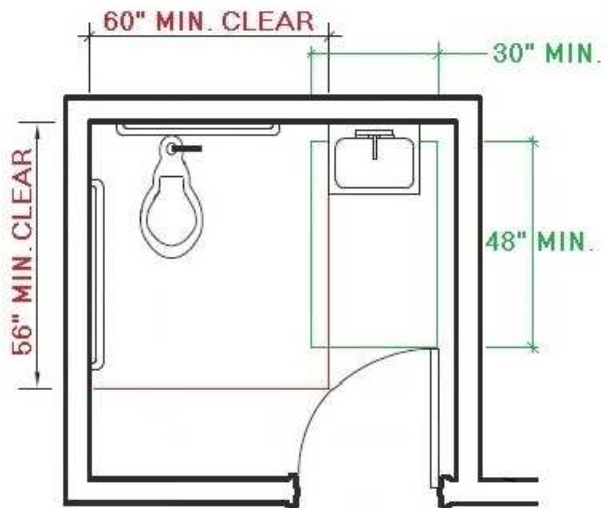
1991 ADAAG Section: 4.17.1

### As Built:

Restroom lacks accessible features

### Recommendation:

Create a compliant wheelchair accessible restroom and correct all features to be accessible



**Finding #15 Additional Finding Photos**

