



"My hands do the work of the world and reach out in service to others."



Accessible & Inclusive Communities

A Wheelchair Ramp Primer

Civitan International Convention

Jacksonville, FL

July 28-31, 2021

Planning:

- Receive request
- Verify End-user needs
- Obtain permission from owner
- Perform site survey
- Design ramp
- Prepare cost estimates
- Arrange funding
- Building permit (if necessary)
- Schedule construction
- Order materials
- Organize crew

Preparing to Work:

- The crew
 - work assignments
 - coordination
 - cutting list
- Unload tools
 - stage for workflow
 - saw workstation
 - lumber location
- Set up rest area
- Put out "Civitan at work" sign
- Arrange wood
- Prepare work site
 - mark underground utilities
 - remove interfering landscaping

Tool list:


- Measuring
 - Tape measure
 - Level (48")
 - Post level
 - Framing square
 - Combination square
- Hand tools
 - Hammer
 - Screw drivers
 - Wrenches
 - Cat's paw
 - Pry bar
 - Hand saw
 - Saw horses
- Power tools
 - Compound miter saw
 - Electric hand plane
 - Circular saw
 - Reciprocating saw
 - Electric drill & bits
 - Electrical cords
 - Electrical splitters
 - Generators
- Fastening
 - Air framing nailer
 - Air compressor
 - Air tool oil
 - 3" round head galvanized framing nails
 - 12d exterior galvanized common nails
 - Electric screw gun
 - 2' deck screws
- Landscape modification
 - Post hole diggers
 - Drain spade/trenching shovel
 - Mattock
 - Rake
 - Tamp
 - Long pry bar
- Finishing
 - Broom
 - Trash bags
 - "Built by..." sign
 - Club information brochure

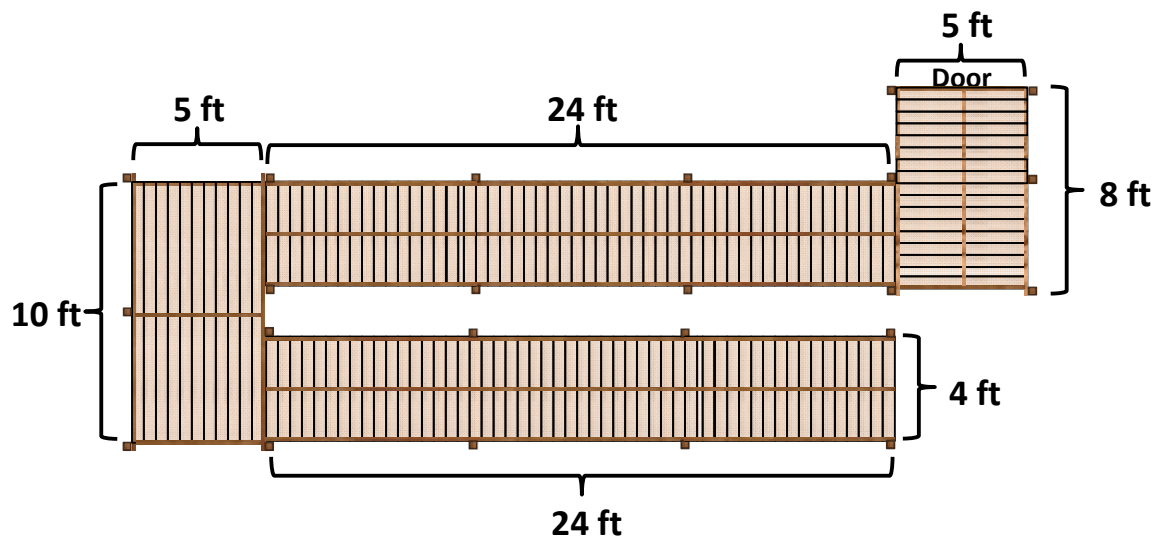


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Safety:

- Personal responsibility
- First aid kit 
- Safety goggles
- Gloves
- Hearing protection
- Sunscreen
- Insect repellent
- Liquids (Gatorade, water)
- Chairs
- Shade (canopy)



ADA Design considerations

- Slope = 1:12 (approx. 5°)
- Width = 36" - 48"
- Landings = 5 feet wide x 5 feet long (minimum)
- Handrail height = 34" - 38"
- No longer than 30 feet of ramp run without a landing

Other considerations

- Slope of lot
- Placement of underground utilities
- Landscape obstacles

Resources:

<http://www.ada.gov/adastd94.pdf>
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