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ABSTRACT

The brochure provides suggestions for adapting or building approaches and entrances to the home to provide full accessibility to persons with mobility limitations due to disability or age. Briefly described are modifications for ramps, landings at the top and bottom of a ramp, and door openers and locks. This publication lists 13 sources for wheelchair and stair lifting devices, six sources of special elevating devices, 20 sources of ramps, 12 sources of ramps and lifts, two special option devices, and nine sources of power door openers and locks. Drawings illustrate many modifications, a table presents figures for determining a ramp's rise, and a chart can be used to check slopes of existing walks and ramps. (DB)

^{*} from the original document.

PAM REPEATER



HOME ACCESSIBILITY, 2

Living as You Like to Live No. 66

JANUARY, 1991

PUBLISHED AT: PAM Assistance Centre 601 West Maple Street Lansing, Mi 48906 (517) 371-5897 or 1-800-274-7426 Voice or TDD

Arselia Ensign, Editor

This is the second in a series of REPEATERS compiled for the purpose of informing our readers of sources of equipment which enable persons with mobility limitations to function freely within their home setting.

We would like to believe that anyone building a new home, or planning to remodel, will take into consideration the importance of full accessibility to every living area within that house. As our population ages, the needs of mobility-limited persons come more and more to the fore. If no more than the aspect of future resale value is considered, plan ahead!

Copies of "Home Accessibility 1, Living as You Like to Live" are still available from the PAM Centre (No. 58). Also available is an earlier Repeater, #48, entitled "Intergenerational Homes," filled with no-cost and low-cost ideas for persons of any age with mobility or sensory limitations. These may be ordered for \$2.00 each postpaid.

The editor of this important series is Sister Kathryn Mullarkey, F.S.E., from our own PAM Assistance Centre staff.

APPROACHES & ENTRANCES TO YOUR HOME

The first issue in this series dealt with general information on designing for the convenience and needs of all individuals. This issue will be concerned with approaches and entrances to a home how do you get to the door, and, once there, how do you get the door open and enter. Future issues will deal with specific rooms or concerns within the home.

A ramp is a connecting bridge between the home environment of an individual and the outside world. Even a single step may keep an individual a virtual prisoner in his own home. A ramp is a simple triangle design structure and as such does not involve complicated building techniques. The ramp should be constructed such that for every foot of rise there should be twelve feet of length. A ratio of 1 to 20 provides easier access and is the preferred incline of a ramp.

Ramps can be made of concrete, wood or a mound of earth. Concrete is generally more expensive than wood but it lasts longer and is easier to maintain. If you are planning to build your own ramp, wood is easier to use and is less expensive. The wood should be treated and the surface of the ramp should be covered with a non-slip surface. This can be done by adding fine sand to the paint or preservative and brushing it on the surface.

A landing should be provided at the top and bottom of a ramp. This landing should be no less than five feet in length from the door and six feet wide. This is necessary to provide safe space for an individual using a mobility aid to be able to open the door easily and to allow someone using a wheelchair to open the door without rolling back down the ramp.

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There is no particular barrier free design building code for residential ramps in the state of Michigan, but there may be particular specifications in your city or county. Contact the Building Officials in your local area for more information.

Prefabricated metal ramps may be obtained to meet the needs of a particular home. These ramps may be permanently installed or portable. Information on both types has been included here.

Ramps may also be rented on a short term basis. Some sources have been included here, and you may contact the PAM Assistance Centre for more information.

Also included in this issue are some options for door openers and locks. This is not an all inclusive listing but is provided to give you a glimpse of the options available.



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WHEELCHAIR & STAIR - LIFTING DEVICES

M = Manufacturer

D = Distributor

E = Elevator

S = Stairlift

W = Wheelchair Lift

P = Porch Lift

SE = Special Elevating Device

American Stair-Glide Corporation 4001 East 138th Street Grandview, MO 64030 800-383-3100 M • S,W, P, E

The Cheney Company P. O. Box 188 2445 S. Calhoun Road New Berlin, WI 53151 800-782-1222 M - S, W, P, SE, E

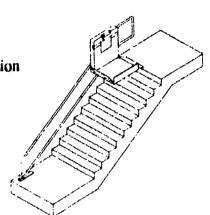
CVC Mobility, Inc.**
10'51 Clow Creek Road
Plainfield, IL 60544
800-888-5770
M - S, W

Econol Stairway Lift Corporation 2513 Center Street Cedar Falls, IA 50613 319-277-4777 M - E, S, W

The Flinchbaugh Company, Inc. 390 Eberts Lane York, PA 17403 717-848-2418 M - S, W

Florlift of New Jersey, Inc.**
41 Lawrence Street
East Orange, NJ 07017
201-429-2200
M - W, E, P, SE

Garaventa (Canada) Ltd. P.O. Box L-1 Blaine, WA 98230 800-663-6556 M - W, SE



Inclinator Company of America**
2200 Paxton Street
P.O. Box 1557
Harrisburg, PA 17105-1557
717-234-8065
M - S, E

National Wheel-O-Vator Company, Inc. P.O. Box 1308 Patterson, LA 70392 800-551-9095 M - S, W, P

Waupaca Elevator Company**
P.O. Box 246
Waupaca, WI 54981
715-258-5581
M - E

Medi-Serv Company 126 E. Washington Street P.O. Box 530 DeWitt, MI 48820 517-669-3540 D • S, W, P

Mobility Systems
861 Robinwood Court
Traverse City, MI 49684
616-941-4326
D · S, W, P

Whitakers 41 Douglas Avenue Yonkers, NY 10703 914-423-4200 D - S, W, P, E, SE

**Devices not approved for buildings that are subject to Section 512.10 of the barrier free design requirements of the State Construction Code.









SPECIAL ELEVATING DEVICES

Detroit Elevator Company 1938 Franklin Street Detroit, MI 48207 313-259-3710

General Elevator Company 15470 Racho Road Taylor, MI 48180 313-374-5005

J.R. Moser Elevator 18443 Marion Road Brant, MI 48614 517-585-3141

McNally Elevator Company 223 W. Ransom Street Kalamazoo, MI 49006 616-381-1860

ProLIFT
775 Davis Street
Suite 12
Plymouth, MI 48170
313-455-9172

R & B Manufacturing 3211 Vanderbilt Road Portage, MI 49002 616-329-0705

RAMPS

M = Manufacturer D = Distributor R = Ramp PR = Portable Ramp PΓ = Portable Track

Access to Recreation, Inc. 2509 E. Thousand Oaks Bou levard Suite 430 Thousand Oaks, CA 91362 800-634-4351 D - PR, PT

Alumi Ramp, Inc. 90 Taylor Street Quincy, MI 49082 517-639-8777 M - R, PR, PT CLEO, Inc. 3957 Mayfield Road Cleveland, OH 44121 800-321-0595 D - R

Crump Products, Inc. 333 Guthrie Green Louisville, KY 40202 502-583-6046 M - R, PR

Dr. Leonard's Health Care Products 74 20th Street Brooklyn, NY 11232 718-768-0010 D - PR, PT

Fred Sammons, Inc.
Box 32
Brookfield, IL 60513-0032
800-323-5547
D - PR

Great Lakes Docks & Docks 7427 Dyke Road Fair Haven, Michigan 48023 313-725-0009 D - R, PR, PT

Handi-Ramp, Inc. P.O. Box 745 1434 Armour Blvd. Munderein, IL 60060 800-876-RAMP M - R, PR, PT

Homecare Products P.O. Box 88694 Seattle, WA 98188 206-251-9183 D - PR, PT

Hopkins Medical Products 1120 Wilso Drive Baltimore, MD 21223-9986 301-525-0077 D - PR, PT

JH Irdustries, Inc. 8901 E. Pleasant Valley Road Cleveland, OH 44131 800-321-4968 M - R

Lumex Inc. 100 Spence Street Bay Shore, NY 11706 800-645-5272 M - PR, PT



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Medical Line Warehouse 6130 Clark Center Avenue, #103 Sarasota, FL 34238 800-247-2256 D-R

Porta-Ramps Div. of Young Enterprises 5592 E. La Palma Avenue Anaheim, CA 92807 800-654-RAMP M · R, PR, PT

Sears Health Care contact local store or call 800-255-3000 D-R, PR

St. Louis Medical Supply 10821 Manchester Road (at Lindbergh) Kirkwood, MO 63122 8(X)-950-6020 D - PR, PT

Trans-Aid Corporation Sunrise Medical 13130 S. Normandie Avenue Gardena, CA 90249 800-538-8966 D · R, PR, PT

Travel Ramp, Inc. P.O. Box 2015 Alachua, FL 32615 904-462-5267 M-R, PR

West Medical, Inc. 411 Waverley Oaks Rd. Waltham, MA 02154 800-222-6800 D - PR, PT

Wheelchair Carrier, Inc. P.O. Box 79 726 Farnsworth Rd. Waterville, OH 43566-0079 419-878-8511 M - PR, PT



RAMPS & LIFTS

Adaptive Products, Inc. 645 South Addison Road Addison, IL 60101 312-832-0203 D - S, W, P, SE, E, R, PR, PT

CARE Medical Equipment Inc. 1877 N.E. Seventh Avenue Portland, OR 97201 800-443-7091 D - S, W, P, SE, PR, PT

Great Lakes Docks & Decks 7427 Dyke Road Fair Haven, Michigan 48023 313-725-0009 D-R, PR, PT

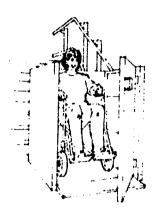
Medical Equipment Distributors, Inc. 3223 S. Loop, Suite 150 Lubbock, TX 79423 800-253-4134 D - S, W, P, SE, PR, PT

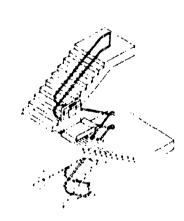
Shugarman Surgical Supply 3134 Dorr Street Tolcdo, OH 43607 419-536-3767 D - S, W, P, SE, E, R, PR, PT

Transportation Concepts Limited P. O. Box 24141 Lansing, MI 48909 517-882-0033 D - S, W, P, SE, E, R, PR, PT Will custom build ramps of wood or aluminum to suite needs of the individual.

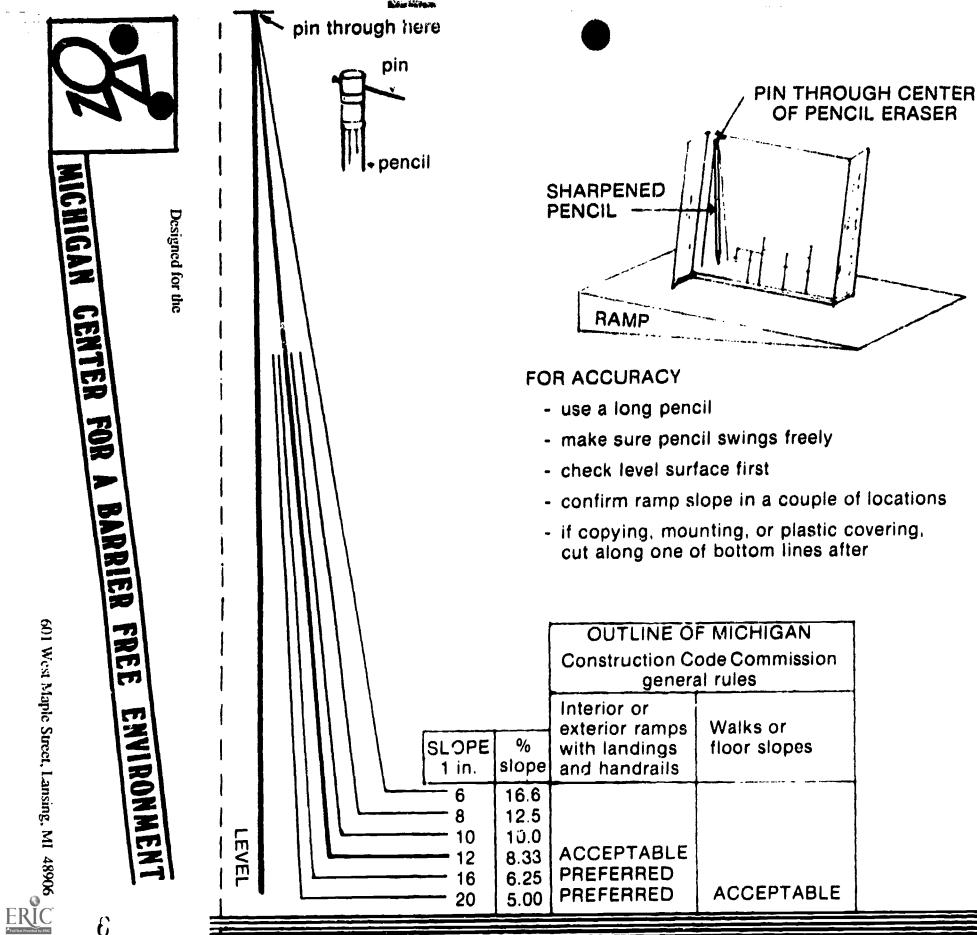
Tri-State Mobility Equipment Co., Inc. 940 Cleveland Avenue, SW Canton, OH 44707 216-489-6666 D-S, W, P, SE, R, PR, PT

Wright & Filippis, Inc. 2845 Crooks Road Rochester Hills, MI 48309 800-482-0222 D - S, W, P, SE, E, R, PR, PT









CONSTRUCT NEW RAMPS

DO NOT US

Portable ramps may be rented from the following:

Equity Management Company P. O. Box 70033 Lansing, Michigan 48907 517-321-6201

Company also has ramp kits available for purchase as well as blueprints to make your own ramp.

Sparrow Health Care Supply 2216 East Michigan Avenue Lansing, Michigan 48912 517-371-2115

Transportation Concepts, LTD. P.O.Box 24141 Lansing, Michigan 48909 517-882-0033

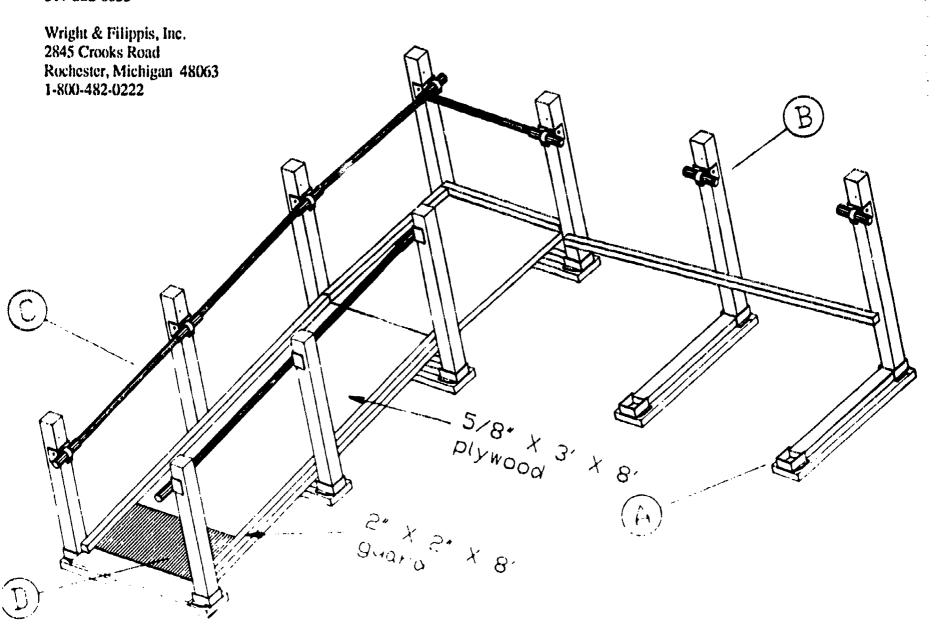
SPECIAL OPTION DEVICES

STAIR-TRAC Garaventa (Canada) Ltd. P.O. Box L-1 Blaine, WA 98230 800-663-6556

Wheelchair mounts onto Stair-trac to climb stairs.

ACCESS MOBILITY SYSTEM
Quest Technologies
766 Palomar Ave.
Sunnyvale, CA 94086-9716
408-739-3550
Pauves shair on tank like tracks and will

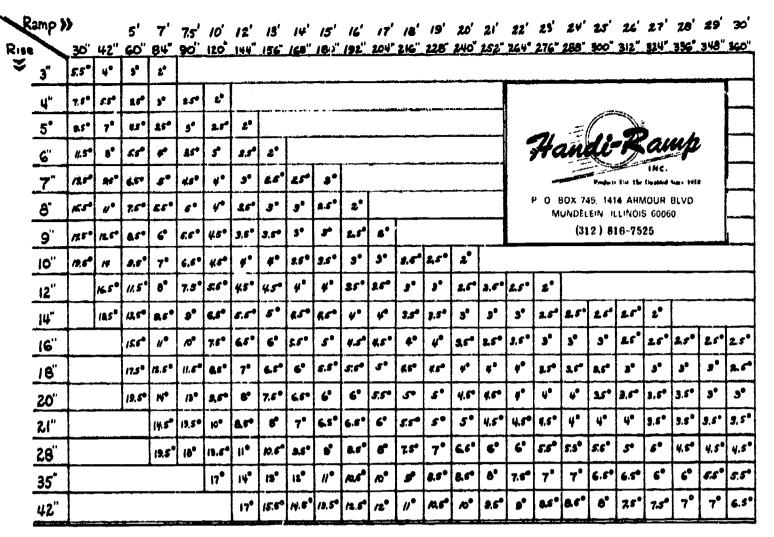
Power chair on tank-like tracks and wheels that allows it to go practically anywhere, indoors or out.



Copyright by: Equity Management Company, 1990.

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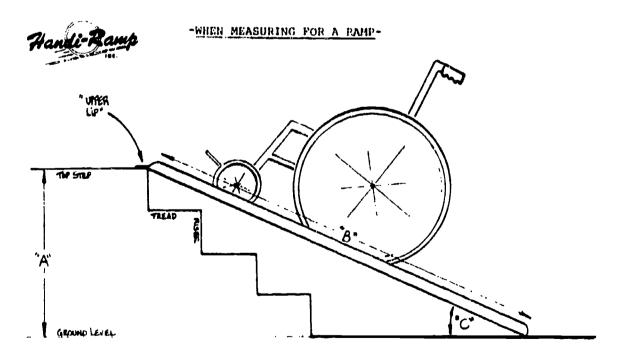


RAMP INCLINES
Ift.:3ft.=19\(\frac{1}{2}\) incline (Maximum for vehicles)-(NY State Max, Recommended Ratio)

Ift.:5ft.=11\(\frac{1}{2}\) incline (Maximum for buildings) (1:5.75 = 10 angle of incline)

Ift.:7ft.=6\(\frac{1}{2}\) incline (Acceptable Private Residence for power/manual chair w/help)

Ift.:12ft=4-5 incline (Gov't Standard-Pub. Bldg.)



"A" Fig.: Meas remort from ground lovel to the step. "B" Rep. (900) 11 Length of ramp.

""" Crade - to tree of ramp incline.

NOTE: Dimentional drawings and Polaroid snapshots of the application should accompany orders for special ramp systems. Help us to serve you better.



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Power Door Openers and Locks

The following is meant only as an example of the options that are available. This is not a comprehensive listing of the companies that carry these products nor is it an endorsement of these companies.

Door-Aid

Medical Surgical Specialties Limited
1611 West Centre
Kalamazoo, Michigan 49002
616-323-8642
800-527-5672

Low cost, simple installation, power door opener. Portable or stationary transmitter activates opener.

Essex Technologies Corporation 1130 Mark Avenue Carpinteria, California 93013 805-684-7601

Keyless door lockset. Electronic pushbutton combination lock eliminates the need for keys. Owner programs 5 digit master code, and secondary code which may be used to provide access to others and can be changed. Tamper alarm and keyboard lock activates when 16 random numbers are pressed.

Gyro Tech, Inc./Lanson Industries, Inc. S82 W18717 Gemini Drive P. O. Box 906 Muskego, Wisconsin 53150 414-679-0045

Electric automatic door operator. Available for swinging doors, sliding doors, or conversion units for existing doors. Portable radio controlled operating mechanism.

Horton Automatics 4242 Baldwin Boulevard Corpus Christi, Texas 78405 512-888-5591 800-531-3111

Electric automatic door operator. It operates as well manually as an automatic. Its largest use is for low cost solutions to making a door barrier free.

Power Access Corporation Bridge Street P. O. Box 235 Collinsville, Connecticut 06022 800-344-0088

The Power Access door operator is activated by an electric signal. There exists an array of controls adapted for special needs. Choose from push button or push plate styles, wireless coded radio controlled switches or specialty sip or puff controls.

Preso-Matic Lock Company, Inc. 3048 Industrial 33rd Street Fort Pierce, Florida 34946 407-465-7400

Mechanically operated digital door locks, 4 digit locks offer 10,000 possible combinations....7 digit locks offer 10,000,000. The jimmy-proof deadlatch bolt locks automatically when the door is shut. It is accessible at all times by combination from the exterior, and unlocks from the interior by pressing the exit button. All Preso-Matic lock models unlock automatically when the combination is used. There are no knobs or levers to turn or twist!

Schlage Electronics 5452 Betsy Ross Drive Santa Clara, California 95054-9974 1-800-227-1667

People no longer have to fumble around with keys or insert cards into a slot. Instead, they are able to gain access by merely holding a credit card-sized Command Key within a few inches of a small sensor near the entrance.

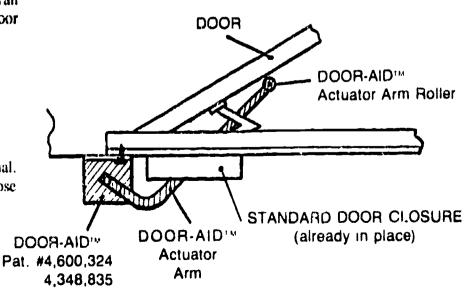
Simplex Security Systems, Inc. Front & Main Streets
P. O. Box 377
Collinsville, Connecticut 06022
203-693-8391

Zygo Industries, Inc.

Completely mechanical pushbutton combination locks eliminates the need for keys. There are thousands of pick-proof combinations possibilities to stop any intruder.

P. O. Box 1008
Portland, Oregon 97207-1008
503-684-6006
and
Tash, Inc.
70 Gibson Drive, Unit 12
Markham, Ontario L3R 4C2 CANADA
416-475-2212

Wireless remote control system. Can be used for various environmental control functions including door operation.





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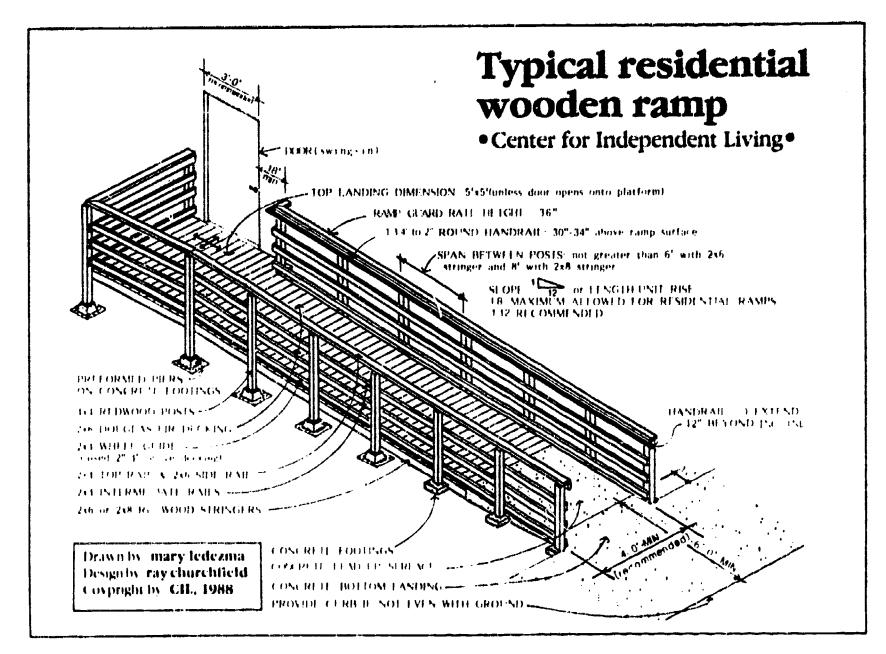


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