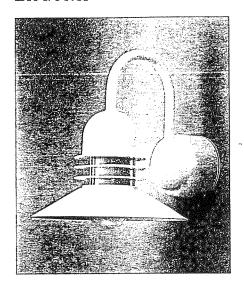
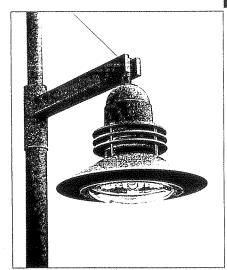
APPENDIX A
Site Furnishings



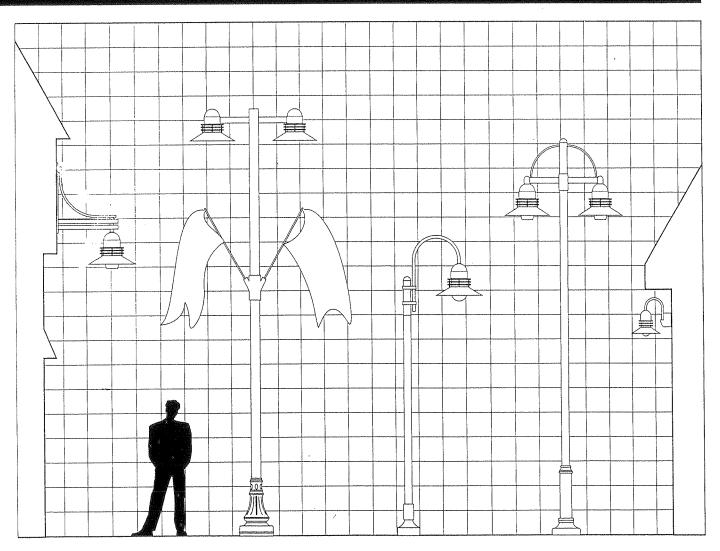
→ SL SR16-CA features a surface mounted cast aluminum ballast housing for ease of installation.

➤ SL SR24H3-T with a TRA 17 arm shown in "Weathered Bronze" powder coat finish. The TRA 17 arm features a brushed aluminum strap. The precision, cutoff reflector system provides unmatched lighting performance and glare control.

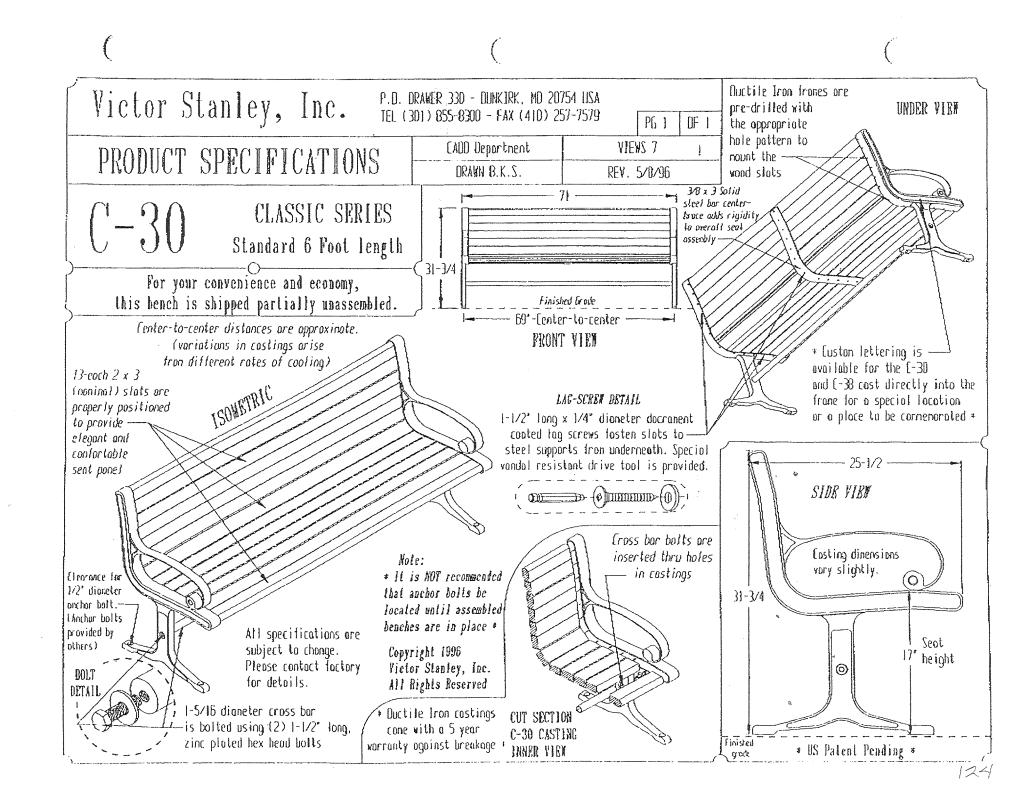


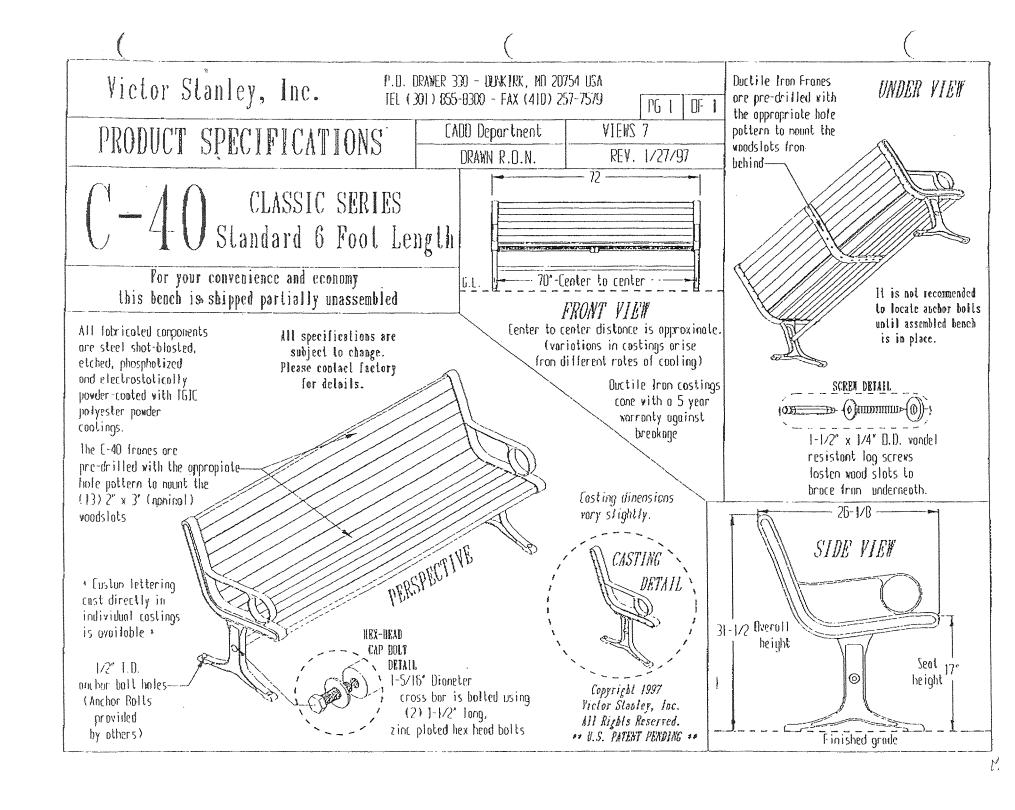
SCALE: 1/4"=1"

Typical Configurations



HEAD	SL SR24GR3-T	2-SL SR24H4-S	SL SR24-T	2-SL SR24GR5-T	SL SR16-CA
ARM	WMA 16	•	SLA 4	SLA20A-2	9
POLE	•	PR5-5R18	PR4-4R9	DB6-4R15	
OPTIONS	3	BC7-5, FLAG HOLDER	BC2-4	•	







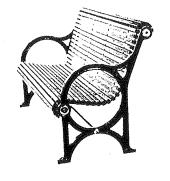


REH

SYSTEMS

BAY





TRANSIT BAY



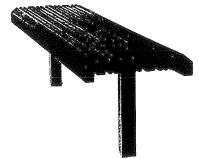


BASIC

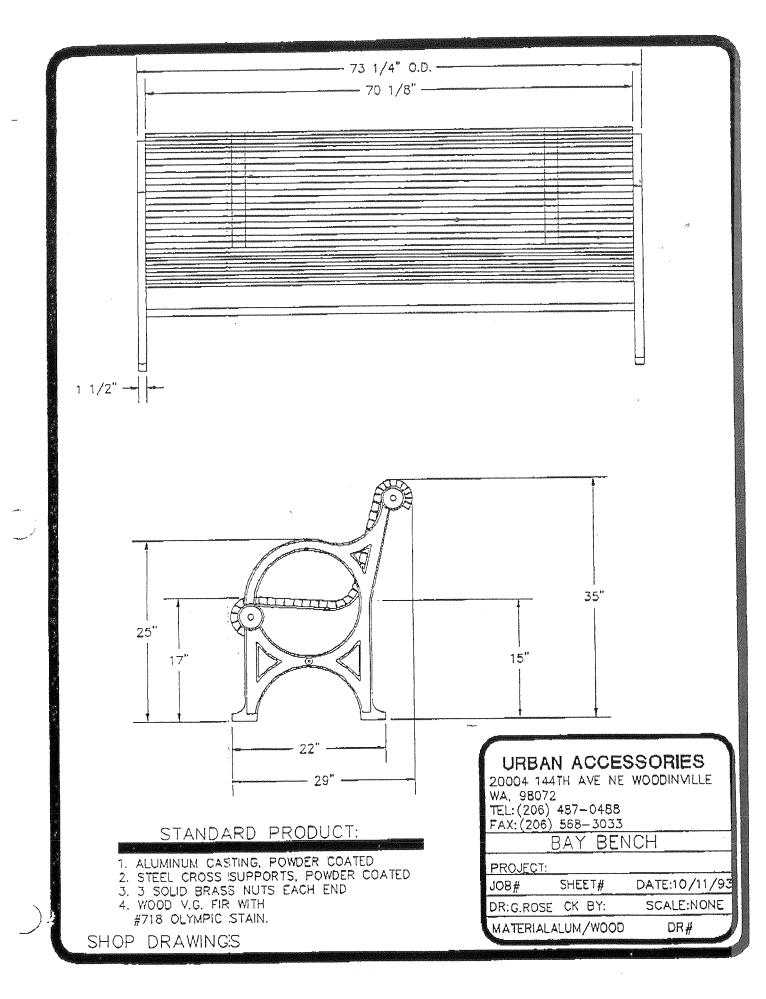
PROMENADE



PEDESTRIAN



STANDARD





RENAISSANCE

REVAISS ANCE BENCH. model C128 *(Oak is shown).* The frame is of class 30 gray iron cast and is finished with factory applied enamel. The assembled size is 34" high x 26" deep. The feet are pre-drilled for surface mounting and each of the nine 1" x 3" nominal

stats are available in the woods and finishes as indicated in our current price list. The Renaissance bench is available in 4° x 5° . 6° and 8° lengths (the 8° model uses three castings). The hardware is zinc-plated and features a rolled center strap and seat braces.

PEDESTRIAN PROOF TREE GRATES

IRONSMITH

Areas subject to high foot traffic require the added safety of tree grates with smaller openings of 1/4" or 3/8", commonly referred to by architects as "pedestrian proof". Ladies heels are the primary concern.

The Americans with Disablities Act of 1990 allows slots up to 1/2". in the Accessibility Guidelines promulgated by the Architectural and Transportation Barriers Compliance Board. The concern is with wheelchair wheels, and the tips of crutches or canes in the hands of the disabled. Narrow slots also help to prevent litter from accumulating in the tree well and minimize weed growth.

Ironsmith offers the architect or designer a greater selection of tree grates with narrow openings than any company in the world.

ROOM TO GROW. Many of our designs allow the tree opening to be enlarged in increments to accommodate the growth, protecting the tree from injury. Grates with this expandable feature are noted with their description. Exceptionally large openings are available on some or can be custom ordered to accommodate large trees such as palms."

BRIGHT ALTERNATIVE. Night illumination adds an exciting dimension to the natural beauty of trees, so many grate designs are available with lightwells as an option. Removable covers allow for the installation of subgrade lighting units (as indicated in the specification table for each tree grate). The covers are offered in clear Lexan (polycarbonate) or as a small grate and are always bolted to the main grate to prevent loss.

CUSTOM DESIGN. At Ironsmith we take a particular pride in our ability to respond to unique customer requirements. Our designer, resident pattern maker, and operations manager work together to ensure that your special project will be not only attractive and functional, but also producible in the most efficient manner.

Ironsmith offers a choice of factory finishes. (See back cover of catalog.)

P. 19E41-DYSVITH IVE

Li.wells 1/4 Sect.

Yes.

Yas

Yes

Yes

Yes

Yes

No

No

Yes

Yes

No Yes No Yes No

Yes

No Yes No Yes

STARBURST Series 1:

1/4" Slots

Standard tree opening is 16" on sizes up to 60"...or special order or later expand to 18" or 28", with larger openings available on request. Half section 72" grates are available with 16", 26" or 36" openings. (72" 1/4 section openings are 16", 18" or 28".) Rectangular version shown below.

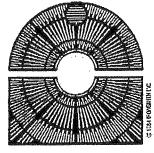
New Custom Sizes:

Part numbers on this page (both Starburst and Olympian) which include an "S" (M7206-2S) are available in two sizes. When ordered with "5" in the part number, size includes grate and frame. Without the "S", (M7206-2) size applies to grate only.

STARBURST Series 2:

3/8" Slots

All the versatility and size options of Series 1. Appropriate where budget is a factor. Both series 1 and series 2 grates meet ADA requirements. Quarter sections require a supportive frame (provided by Ironsmith) and bolted lightwell covers are optional on both series.



CHECK MANAGEMENT	STANSAUGP CONTRA	delictric Accessed	SANTANA SANTANA	
arl#	Shape	8iza	Lt.wells	1/4 Sect.

Rectangular Starburst Tree Grates

M6054		36"X60"	No	No
M6056		36"X60"	Yes	No
M7226		36"X72"	No	No
M7228	0.000	36"X72"	Yes	No
M7222		48"X72"	No	No
M7224		48"X72"	Yes	No
M9602		48"X96"	No	No
M950-1		48"X96"	Yes	Nο
M14402		48"X144"	No	Yes
M14404		48"X144"	Yes	Yes

Note: To specify Series 2 grates, add -2 to part number. Example: (M3514-2).

		É

Part #	Shape	Size	Lt.wells	1/4 Sect.	Pan # S	nape	Size .
M3614	ы	36"	No	No	M7205-2S	•	72"
M3615	•	36"	No	No	M7206-2S	Ħ	72"
M3617	•	35"	Yes	No	M7207-2S	8	72"
M3618	IJ	36"	Yes	No	M7208-2S	u	72"
M4814	8	48"	No	No	M8401	0	84"
M4816	18	48"	Yes	No	M8403	9	84"
M4817	4	48"	No	No	M9601	•	. 96"
M4819	•	48"	Yes	No	M9603	ø	96"
M6017	9	60"	No	No	M9E06	×	96"
MB018	8	60"	No	No	M9608	2	96"
M6019	•	60"	Yes	No -	M10801	Φ	108"
M6020	包	60"	Yes	No	M10803	0	108"
M7205	*	72"	No	No	M12001	9	120"
M7206	ij	72"	No	No	M12003	0	120"
M7207		72"	Yes	No			
M7208	Ħ	72"	Yes	No			

*Supplied in 12 30° sections, support frame required.

OLYMPIAN: 1/4" Slots

Widely used for its economy and beauty and particularly recommended for sidewalk installations. The standard tree opening is 16" and may be special ordered or later expanded to 20" or 24". Larger openings on request. All 60" and 72" sizes are available with 16", 26" or 36" tree openings at no extra cost.

Part #	Shape	Sizo	L1.wells	1/4 S ec
M3602	£	36"	No	No
M3603	9	35"	No	No
M4202	18	42"	No	No
M4203	•	42"	No	No
M4803	4	48*	No	No
M4804S	. 3	48"	No	No
M4808S		48"	Yes	No
M4809	•	48"	Yes	No
M5204	8	52"	No	No
M60065) I	60"	No	No
M6007		60"	No	No
M6015	•	60"	Yes	No
M60165	j = #	60"	Yes	No
M72015	+ 0	72"	Na	No
M72028) · 8	72"	No	No
M72039	9	72"	Yes	No
M72045	3 † 🛮	72"	Yes	No
M3513-	0 9	30"	No	No
M4821	0 9	48"	No	Νo
M6039-	0 😉	60"	No	No
f indicat	es 35° iree	opening	al no addh	tonal cost

a ledesing negation and an entering

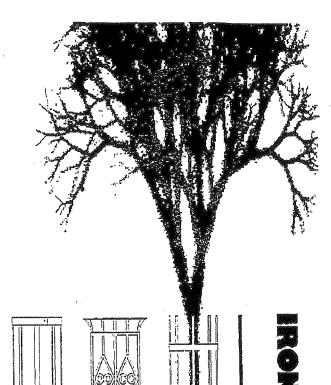
Ironsmith's decorative, rugged, treeguards complete the picture.

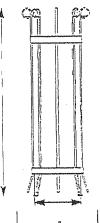
Ironsmith treeguards are jig welded from hot rolled steel (ASTM-A36) and available in the styles shown below.

They can be attached to the tree grate by first drilling and then bolting, according to instructions provided with the grates. Or they can be mounted to a crossbar which may be ordered as an option with the frames. They're fabricated in halves and bolt together for easy labor saving field assembly, with all installation hardware provided by Ironsmith.

Standard treeguard height is five feet and standard tree opening is 16", however any height and opening may be requested at additional cost

They can be supplied: (1) Prime coated; (2) With electrostatically applied enamel in a variety of colors; or (3) With baked-on powder coating (for maximum durability) in a full range of colors.





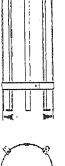


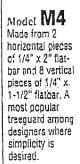




Model W Made with 2 horizontal dieces 1/4" x 2" flatoar and 8 vertical pieces. 1/4", x 1" flatbar. A good showing and strong construction makes it the ideal treeguard where budget is a major consideration.

Model M3 Made with 3 nortzontal pieces 1/4" x 1-1/2" flatbar and 12 vertical pieces of 1/4" x 1" flatbar. Our most popular treequard provides maximum coverage around tree providing protection from even small objects and intruders.







Model M5 Made with 3 horizontal nieces of 1/4" x 2-1/2" flatbar and 8 vertical pieces of 1/4" x 1-1/2" flatbar, Ideal where maximum lateral bns frocque protection is required.



Model **M6** Made with 2 horizontal pieces of 1/4" x 2" flatbar and 8 vertical pieces of 1/4" x 1-1/2" flatbar. A smoother too. --(horizontal ring is flush with verticals), for greater safety to pedestrians, thus popular for use in schools and playgrounds.



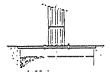
Model M8 Made with 3/8" x 3/4" solid flatbar. The flare too. diamond shaped inserts and cast aluminum rings add a traditional, decorative look to this unique design, Solid construction and cage offer beller than average tree



Model W10 Made with 2 horizontal pieces 1/4" x 2" flatbar and 8 vertical cieces 1/4" x 1" flathar, Ideal where safety is required and a to welv mumixem the tree is desired.

Contact your local sales representative or call toll free for spec sheets and drawings.

ATTACHED TO TREE GRATE



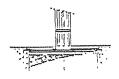
Surface Attached

Treeguard Attachment Methods

Ironsmith's engineering staff will assist with custom methods designed for your application. Pilter proof bolting and grate attachment available upon request.

SUPPORTED INDEPENDENTLY OF TREE GRATE

protection.



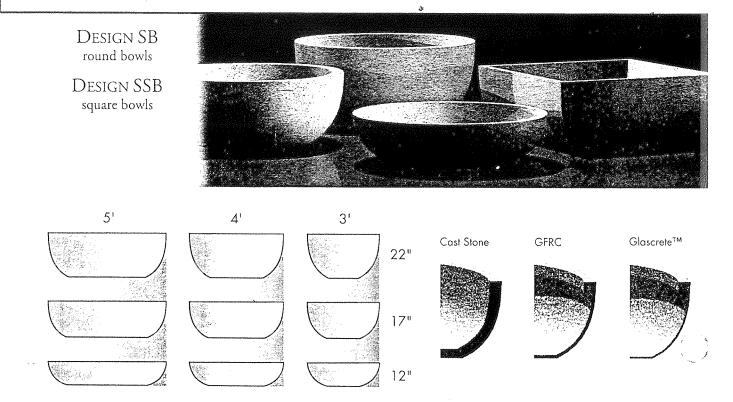
Support Attached

IRONSHITH

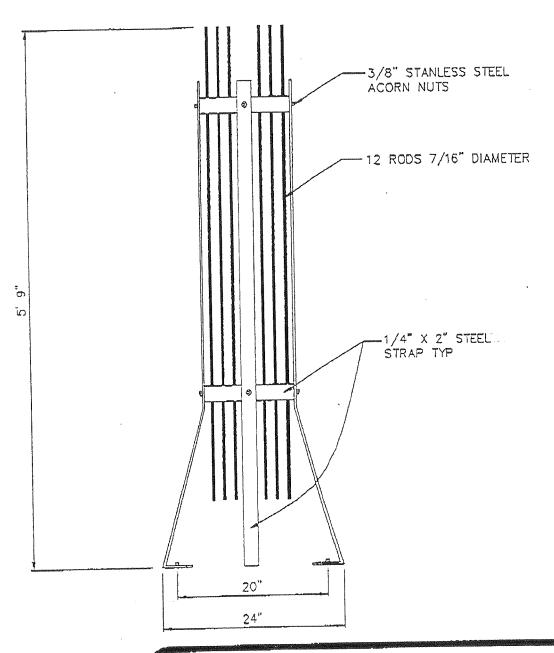
41651 Corporate Way, Suite 3 Palin Desert, GA 92260 800/338-4765 Tel: 619-776-5077 Fnx: 619-776-5080

Printed in U.S.A. ©1995, R.J. Smith Sales Inc.

Spanish



larger and smaller diameter bowls are available upon request.



URBAN ACCESSORIES 20004 144TH AVE. NE WOODINVILLE, WA 98072 (206) 487- 0488 TREE GUARD SW/B PROJECT: JOB# SHEET: 1-1 DATE: 5/20/93 DRAWN BY: G.ROSE CK BY SCALE NONE MATERIAL STEEL DR.#

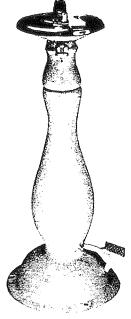
Single Arm Metro Drinking Fountain© Handicap approved





1776 Old Style

The fountain for theme and historical-style areas. The anti-freezing 1776 is of Murdock's original design with polished brass bowl and mouth guard.



LILY WHITE

A newer member of the Classic Series, this unit is a Murdock original design of the Art Deco inspired 1920's. With polished brass bowl and bubbler, it is a unique addition to any setting. Antifreezing



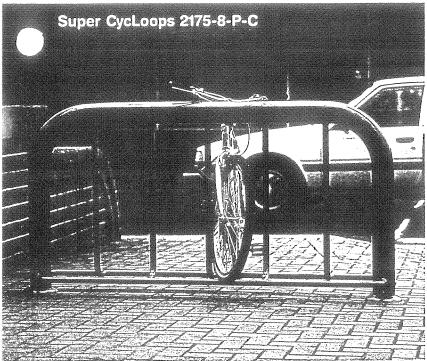
NOW AVAILABLE FOR WHEELCHAIR ACCESSIBILITY, THESE UNITS COMPLIMENT ANY HISTORICAL AREA COMBINATION UNITS PROVIDE ONE DRINKING FOUNTAIN FOR BOTH PEDESTAL AND WHEELCHAIR PEIGHT NECESSITIES.

MC76-1 One Arm
MC76-2 One Arm w/Centerbowl
MC76-1-1 2 Arms; 2 Bowls
MC76-3 2 Arms; 2 Bowls and Centerbowl

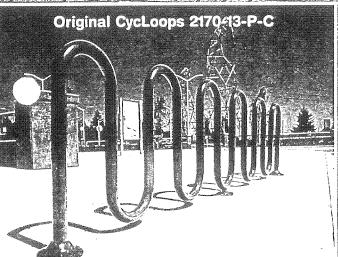


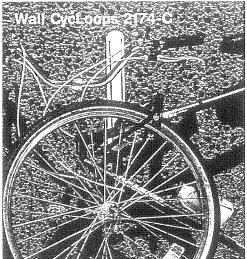


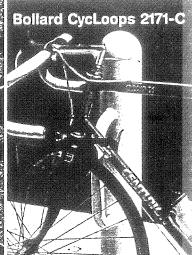


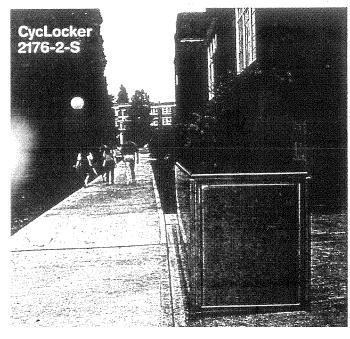


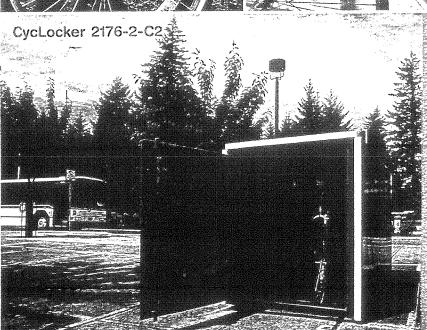












Loop Bike Rack 83

- Easily adapts to any areaChoice of finishes

Materials

Material: 2-3/8" O.D. x 11 gauge wall galvanized steel tube.

See inside front cover for choice of Finish:

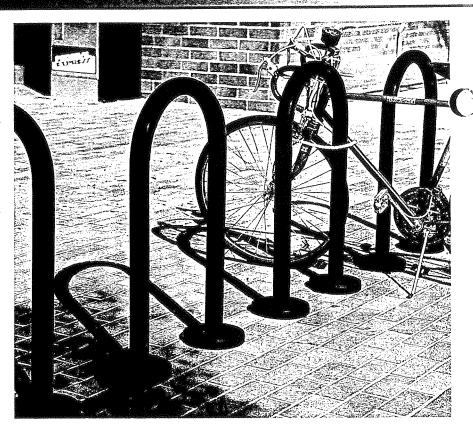
polyester powder finish. (Bronze shown.)

83-00G Galvanized Loop (30 lbs.)

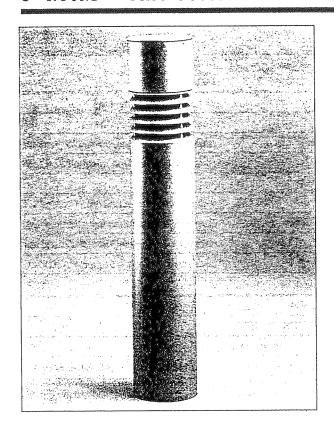
00 00 00		,
S-1	Embedment	\$4 7
S-2	Surface Plate	\$117
S-4	Sub-Floor	\$95

83-00 Powder Coated Loop (30 lbs.)

00 00	a direct content about to	~ ~~~
S-1	Embedment	\$53
S-2	Surface Plate (shown)	\$123
S-4	Sub-Floor	\$101



ALUMINUM BOLLARD 8" ROUND = CAST CUTOFF LOUVER

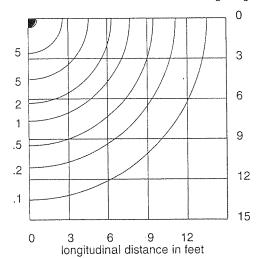


PHOTOMETRICS

Lamp type	Lumens	Conversion factors
50 w HPS, clear	4000	.69
70 w HPS, clear	5800	1.00
100 w HPS, clear	9500	1.64
50 w MH, clear	3300	.57
70 w MH, clear	5200	.90
100 w MH, clear	8500	1.47

ALR 8 - 70 HPS

Horizontal footcandles 70 w HPS 5800 lumens 42" mounting height



ORDERING INFORMATION

CATALOG NUMBERS	SPECIFY VOLTA 120 OR 277	GE	DESCRIPTION	
ALR 8 - 50MH			50 w MH	
ALR 8 - 70MH			70 w MH 🦸	
ALR 8 - 100MH 100 w MH				
ALR 8 - 50HPS 50 w HPS				
ALR 8 - 70HPS		70 w HPS		
ALR 8 - 100HPS			100 w HPS	
EXAMPLES				
ALR 8 - 70 MH	120	WHT	•	
ALR 8 - 50 HPS	277	BLK	FS1(FUSE)	
CAT. NO. LAMP	/OLTAGE	COLOR	OPTION	

WARNING: Fixture must be grounded in accordance with local codes or the National Electric Code. Failure to do so may result in serious personal injury.

SPECIFICATIONS

· Housing 42" High

The housing shall be extruded 6063 T-6 aluminum. The top cap shall be cast #356 aluminum, sealed with a silicone gasket. The louver assembly shall be #356 cast aluminum with four integral tie rods. The inner lens shall be one piece formed acrylic, sealed to the housing. An upper aluminum reflector shall have a specular Alzak® finish.

• ELECTRICAL

All electrical components and materials shall be U.L. recognized. Ballasts are high power factor rated for -20° starting. Medium base porcelain sockets are 4KV rated. The electrical assembly shall be prewired on an aluminum strap mounted to the base casting.

Mounting

The internal mounting base shall be cast #356 aluminum with a minimum wall thickness of .250 inches. The shaft shall be secured to the base with four stainless steel bolts. Bolt circle shall be 5.50 inches. The four mounting bolts shall be hot dipped galvanized steel, 1/2" x 10" x 2".

FINISH

Fixture finish shall consist of cleaning, degreasing and rinsing, followed by a protective chromate primer, deionized water rinse, oven dry off and top coated with a TGIC free, thermoset polyester powder coat finish, with a minimum thickness of 2.5 mils.

• RELAMPING

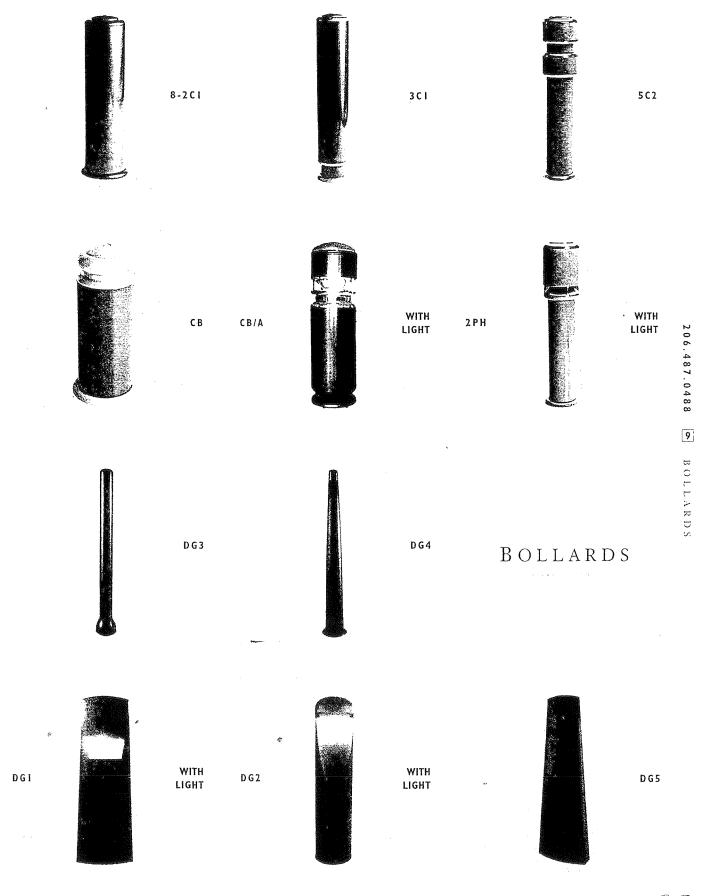
The lamp is accessed by loosening three set screws and removing the top cap.

• CERTIFICATION

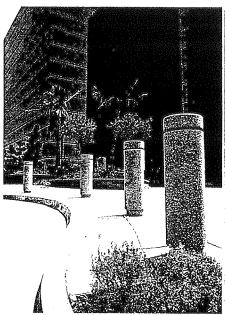
Fixtures shall be listed with U.L. Laboratories for wet location use.

WARRANTY

Fixture shall be warranted to be free of defects for two years. Ballast components shall carry the ballast manufacturer's limited warranty.



BOLLARDS



PB-25 Parking Bollard, LB-25 Light Bollard

Handicapped Parking Designation Package

Bollard Insignia An available option for any parking bollard with color and finish coordinated with paver.

HPP-1 Parking Paver . (36" x 38" x 6") Designed to be set in concrete or asphalt pavement.











ABF

PB-E round 16"--ABF

PB-H1 round



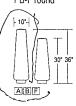
PB-H3 round



PB-C square PB-D round



PB-F round



PB-H2 round



PB-H4 round



Light Bollards

PB-25 round

- 12-

ABF

PB-35 round

-- 24"-----|

ABF

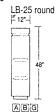
18*--

ABF

PB-50 round

.. 24*..

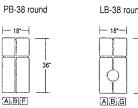
ABF

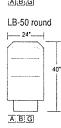


LB-35 round



LB-38 round

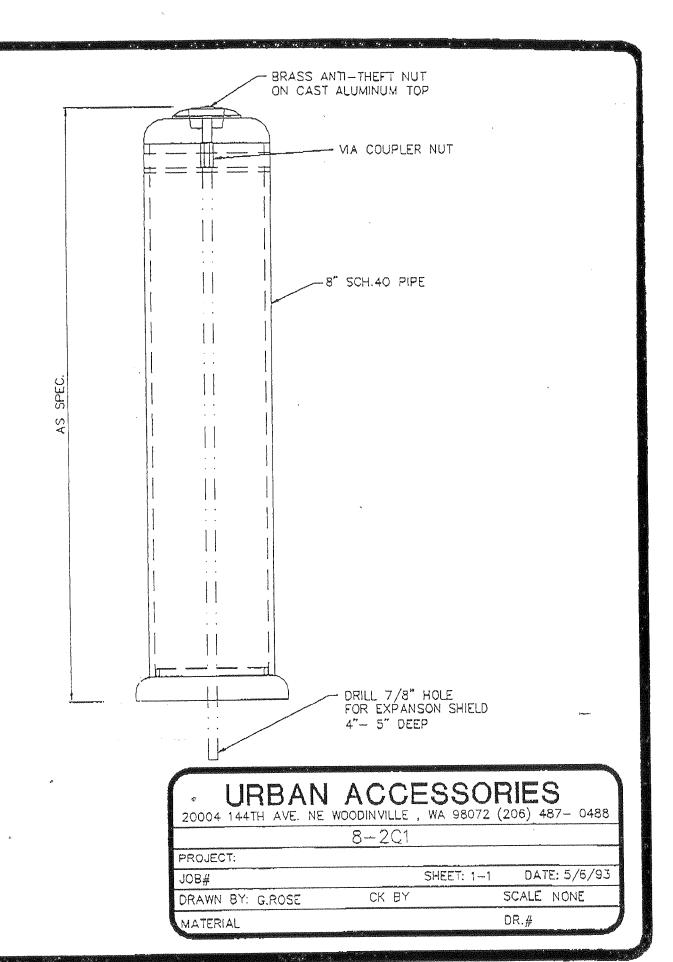




ELECTRICAL FIXTURES AND CONDUIT NOT INCLUDED on Light Bollards.
Specifier to select light fixtures of choice. Light opening inset will be modified to accommodate specified light fixture.

Inserts for eyebolts on all bollards are available when specified. Eyebolts and chain are excluded.





Woven and horizontal strap seat styles may be specified for backed or flat benches. Backed benches are offered in 24", 48", 72" or 96" lengths. Flat benches may be specified in 48", 72" or 96" lengths.

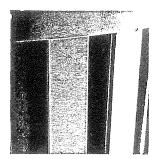
Harris de problèment de la company

Whether used with Scarborough benches or specified to stand alone, Scarborough litter receptacles are handsome, durable and functional. Receptacle lid lifts up and swings to the side for easy removal of litter. Choose from vertical strap or square bar side panel. Side or top opening receptacles may be specified; an optional keyed lock may be added for security. An optional ash pan may be specified for the side opening receptacle. Liners coordinate with standard powdercoat color offering and have 30 gallon capacity.

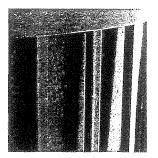
- ◆Left: SC3005-BS-24, woven seat, Grotto powdercoat.
- Litter Receptacles: SC5002-24-40, SC5002-24-33. Square bar side panel, Grotto powdercoat.



▲ Litter Receptable lash pan option.

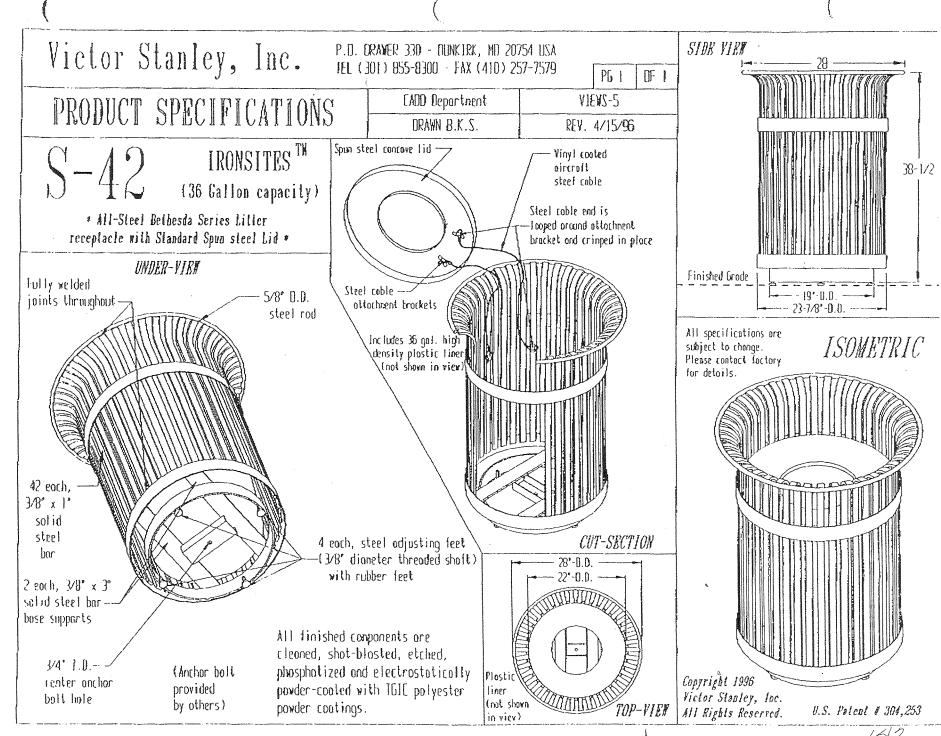


▲ Litter Receptacie, strap panel.



▲ Litter Receptacle: square bar panel.





RECEPTACLES For litter receptacles select model number, vertical strap or square bar, powdercoat color. Receptacle liners coordinate with standard powdercoat colors. If optional powdercoat color is specified, select a standard liner color. Optional keyed lock is \$100 upcharge. Optional ash pan on side-opening receptacle is \$100 upcharge.

Model Number	Size (W x H)	Price (Ship.wt.)				
SC5002-24-33 SC5002-24-40	25" x 33" Opens 25" x 40" Opens	top \$ 1080 (100) side 1300 (105)				
			SC5002-24-33 Top Opening	SC5002-24-40 Side Opening	Vertical Strap Detail	Square Bar Detail

PRODUCT LIST

STREET LIGHTS

LAGUNA style; Architectural Area Lighting; (714) 994.2700

BENCHES - (3 alternatives)

- 1. CLASSIC SERIES (C-30 or C-40); Victor Stanley, Inc.; (800) 368.2573
- 2. BAY style; Urban Accessories, Inc.; (206) 487.0488
- 3. RENAISSANCE- model #C128; Cambridge Designs, Inc.; (800) 477. 7320

TREE GRATES

STARBURST SERIES 1 or 2- (Request ADA compatible); Ironsmith Company; (800) 338.4766

TREE GUARDS- (2 alternatives)

- 1. Model #M3 or M10; Ironsmith Company; (800) 338.4766
- 2. Model #SW/B; Urban Accesssories; (206) 487.0488

PLANTERS

SPANISH style- (all sizes); Dura Art Stone; (800) 821.1120

DRINKING FOUNTAINS- (2 alternatives)

- 1. SINGLE ARM METRO FOUNTAIN-(ADA approved); Canterbury International; (800) 935.7111
- 2. CLASSIC Series- model# MC76-1 or 2; Murdock Inc.; (513) 471.7700

BIKE RACKS- (2 alternatives)

- 1. LOOP BIKE RACK 83; Du Mor, inc.; (800) 598.4018
- 2. ORIGINAL CYCLOOPS- model # 2170; Columbia Cascade Co.; (800) 368.1366

BOLLARDS

- A. Lighted- (2 alternatives)
- 1. 8" ROUND- CAST CUTOFF LOUVER; Architectural Area Lighting; (714) 994.2700
- 2. Model #DG2(cast aluminum); Urban Accessories; (206) 487.0488
- B. Standard- (2 alternatives)
- 1. Model #8- 2C1 (cast aluminum); Urban Accessories; (206) 487.0488
- 2. Model #PB series (round); Dura Art Stone; (800) 821.1120

TRASH RECEPTACLES- (2 alternatives)

- 1. SCARBOROUGH Collection- model #SC5002-24-33 w/ Square Bar Detail; Landscape Forms, Inc.; (880) 521.2546
- 2. IRONSITES model# S-35 or S-42; Victor Stanley, Inc.; (800) 368.2573