

CITY OF WASHINGTON

PLANNING & DEVELOPMENT DEPARTMENT

301 Walnut St. - Washington, IL 61571

Ph. 309-444-1135 · Fax 309-444-9779

<http://www.washington-illinois.org>

joliphant@ci.washington.il.us

MEMORANDUM

TO: Mayor Manier and Committee of the Whole
FROM: Jon R. Oliphant, AICP, Planning & Development Director
Ed Andrews, PE, Public Works Director
SUBJECT: Southeast Square Parking Lot Streetlight
DATE: July 7, 2017

As you may recall, Ameren presented the City of Washington with a Progressive City award last year. The award came with a \$2,500 grant to be used toward a community project that "improves services or enhances the quality of life of our residents and businesses." One such means of utilizing this funding was to apply it towards the purchase of a new decorative streetlight for the Square.

In coordination with the completion of the reconstruction of the southeast Square parking lot, an allocation has been made for a light to be provided near the Ipava State Bank drive-thru lanes. Conduit was stubbed there last summer at this location in anticipation of a future light installation. This would provide light along Ford Lane and the west end of the parking lot.

Staff solicited quotes through Ty Slonneger of RNS Electric for an 18' pole with either a single-head or five-head fixtures and either HPS or LED. These are from Sternberg and Sun Valley Lighting. The original quotes obtained included a single-head globe-style and five-head globe-style fixtures and staff has solicited bids for single-head acorn-style. A spreadsheet is attached with those quotes (minus the single-head acorn-style, which staff hopes to have by Monday) along with the specs for the poles and fixtures for both brands. Ty also provided quotes for banner arms, light deflectors, and rotatable street signs. Sun Valley has the lower cost on each of these items with the exception of the street sign.

The Public Works Committee discussed this at its July meeting and recommended proceeding with a single-head LED acorn-style fixture from Sun Valley. Since the City does not have any Sun Valley lights currently, this would allow for some time to "test" this streetlight before potentially utilizing them for any necessary replacements on Peoria and Walnut Streets. This would have a minimum total cost (including add-ons) of \$3,274. After consulting with Ty, the change from a globe-style to an acorn-style should not affect the price by more than additional \$500. RNS submitted a quote of \$4,235 for the installation of the pole and associated electrical work.

While staff is looking for direction specifically for this streetlight, we would also look for assistance in choosing a preferred fixture for all future purchases. The lights in the interior and within the northeastern parking lot have five globes while others along the perimeter and on Peoria Street have a single globe. An option to utilize the same appearance would be to have single-acorn fixtures on the perimeter and five-globe fixtures on the interior and the northeastern parking lot. This was recommended by the Public Works Committee. While a formal analysis of the five-globe lights has not been done, they appear to be in solid shape.

This is scheduled for review at the July 10 Committee of the Whole meeting. The purchase of the streetlight and electrical services would likely be scheduled for formal approval on the consent agenda at the July 17 City Council meeting pending the consensus of the COW.

Square Streetlight Options									
		Poles/Fixtures			Accessories				
Vendor	18' LED 5-head	18' HPS 5-head	18' LED 1-head	18' HPS 1-head	18' banner arms	Light Deflector	Rotatable street sign		
Sternberg	\$8,760	\$7,225	\$4,095	\$3,758	\$508.69	??	\$270		
Sun Valley	\$6,965	\$4,950	\$2,764	\$1,638	\$170	\$45	\$295		



PO Box 367
Washington, IL 61581
309.444.5200

Proposal

June 12, 2017

City of Washington
301 Walnut St
Washington, IL. 61571

Re: ISB lot Sun Valley pole with options.

We propose to supply the following material.

- New 10-1070-18FT-PT-XX-STD Finish pole:.....**\$1,120.00**
- New LG18-YE-WA-150-watt HPS-STD Finish HID fixture:.....**\$518.00**
- New LG22-LED-YE-WA-VPA-SYM-64LED-STD Finish LED fixture:**\$1,644.00**
- New set of RBA18-STD Finish Banner arms:.....**\$170.00**
- New HSS House shield lighting deflector:.....**\$45.00**
- New RSS-STD Rotatable street sign with no letters:.....**\$295.00**

This Proposal does not include:

- **Any sales tax on material.**
- **Any installation.**
- **Any receptacles on pole.**

This proposal is valid only 30 days from the above date.

Sincerely,
RNS Electric Inc.

Accepted by:

Ty Slonneger
General Manager

By: _____

Date: _____

Committed to our customers and quality.

RNS Electric, Inc.

PO Box 367
Washington, IL 61581
309.444.5200

Proposal

June 13, 2017

City of Washington
301 Walnut St
Washington, IL. 61571

Re: New square pole lighting options. **Sternberg**

We propose to supply the following material.

- Sternberg 18' pole and 5 globe type heads (One 150-watt HPS and four 35-watt HPS) with **HID type lighting lamps and ballast**:.....\$7,225.00
- Sternberg 18' pole and 5 globe type heads with **LED type lighting**:.....\$8,760.00
- Sternberg 18' pole and 1 globe type head (One 150-watt HPS) with **HID type lighting lamp and ballast**:.....\$3,758.00
- Sternberg 18' pole and 1 globe type head with **LED type lighting**:.....\$4,095.00

All of the above mentioned poles include two receptacles on them. One receptacle is located below the head and one is above the base.

Additional Items:

- **One set of banner arms**:.....\$508.69
- **One decorative street sign for use with 24" sign blade**:.....\$270.00

This Proposal does not include:

- **Any sales tax on material.**
- **Any installation.**

This proposal is valid only 30 days from the above date.

Sincerely,
RNS Electric Inc.

Accepted by:

Ty Slonneger
General Manager

By: _____

Date: _____

Committed to our customers and quality.

RNS Electric, Inc.

PO Box 367
Washington, IL 61581
309.444.5200

Proposal

June 21, 2017

City of Washington
301 Walnut St
Washington, IL. 61571

Re: ISB lot Sun Valley 5 head LED pole with options.

We propose to supply the following material.

- New 5 head 18ft pole with 4+1 arm and 5 LED fixtures:.....\$6,965.00
- New set of RBA18-STD Finish Banner arms:.....\$170.00
- New HSS House shield lighting deflector:.....\$45.00
- New RSS-STD Rotatable street sign with no letters:.....\$295.00

This Proposal does not include:

- **Any sales tax on material.**
- **Any installation.**
- **Any receptacles on pole.**

This proposal is valid only 30 days from the above date.

Sincerely,
RNS Electric Inc.

Accepted by:

Ty Slonneger
General Manager

By: _____

Date: _____

Committed to our customers and quality.

RNS Electric, Inc.

PO Box 367
Washington, IL 61581
309.444.5200

Proposal

June 26, 2017

City of Washington
301 Walnut St
Washington, IL. 61571

Re: ISB lot Sun Valley 5 head HPS pole with options.

We propose to supply the following material.

- New 5 head 18ft pole with 4+1 arm and 5 LED fixtures:.....\$4,950.00
(150-watt HPS in the center and four 50-watt HPS)
- New set of RBA18-STD Finish Banner arms:.....\$170.00
- New HSS House shield lighting deflector:.....\$45.00
- New RSS-STD Rotatable street sign with no letters:.....\$295.00

This Proposal does not include:

- **Any sales tax on material.**
- **Any installation.**
- **Any receptacles on pole.**

This proposal is valid only 30 days from the above date.

Sincerely,
RNS Electric Inc.

Accepted by:

Ty Slonneger
General Manager

By: _____

Date: _____

Committed to our customers and quality.

RNS Electric, Inc.

PO Box 367
Washington, IL 61581
309.444.5200

Proposal

June 13, 2017

City of Washington
301 Walnut St
Washington, IL. 61571

Re: New electrical service & instanton of pole light in SE parking lot near Ipava State.

We propose to supply the following material.

- New Milbank meter pedicel with 100-amp single phase 120/240-volt panel and meter socket.
- #2 aluminum wire in existing conduit from NW Corner Island to Ameren utility pole.
- #10 copper wire from new power pedicle to new 18' aluminum pole light located south of Ipava State Bank.
- Simple dusk to dawn controls with override switch to control pole lighting.
- Rework existing PVC conduits at pole light and electrical service.
- **Installation only of single head 18' pole.**

Total Quote: \$4,235.00

Additional Items:

- **Additional labor if 5 head pole is selected over single head pole :Add:\$320.00**

This Proposal does not include:

- **Any sales tax on material.**
- **Any supply of pole light or fixtures in this proposal.**
- **Any overtime or double time.**
- **Any concrete foundation for pole light.**

This proposal is valid only 30 days from the above date.

Sincerely,
RNS Electric Inc.

Accepted by:

Ty Slonneger
General Manager

By: _____

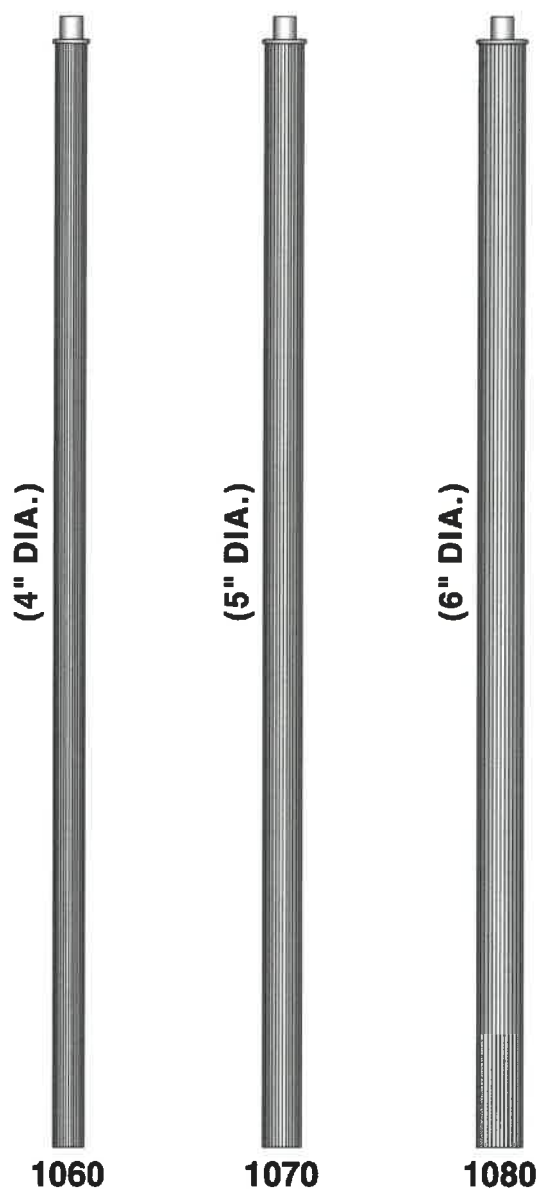
Date: _____

Committed to our customers and quality.

FLUTED

FLUTED

ROUND EXTRUDED FROM 6063 ALLOY ALUMINUM. HEAT TREATED TO PRODUCE A T6 TEMPER. SHAFTS HAVE EVENLY SPACED HIGHLY DETAILED RAISED VERTICAL FLUTES.



(FLUTED ALUMINUM SHAFTS)
SHAFT WALL THICKNESS .188

POLES PROVIDED WITH TENON TOP
POST TOP (PT): 2 7/8" O.D. X 3"
MULTIPLE LUMINAIRES: 2 7/8" O.D. X 6"



sun valley
LIGHTING

660 WEST AVENUE O, PALMDALE, CA 93551
(661) 233-2000
FAX (661) 233-2001
www.sunvalleylighting.com



BASE

1000

BASE

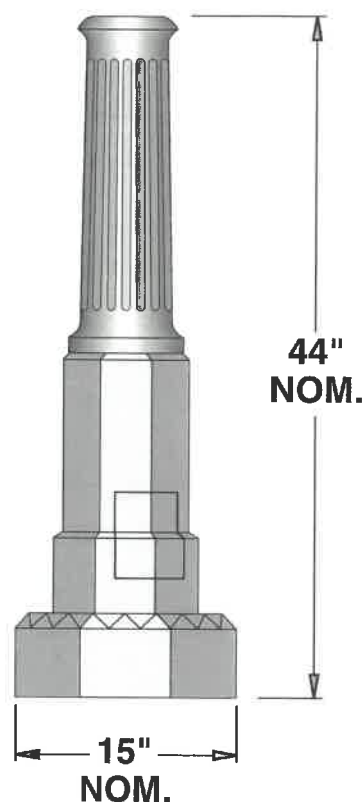
ONE PIECE CORROSION RESISTANT, DURABLE CAST ALUMINUM CONSTRUCTION, MINIMUM .210 WALL THICKNESS. BASE CONSISTS OF A SMOOTH, STEPPED BOTTOM SECTION WITH HAND HOLE AND A DECORATIVE FLUTED SECTION CONSISTING OF EVENLY SPACED, HIGHLY DETAILED RAISED VERTICAL FLUTES. HAND HOLE COVER SUPPLIED WITH TAMPER RESISTANT HARDWARE. GROUNDING LUG PROVIDED INSIDE BASE OPPOSITE HAND HOLE.

ANCHORAGE

A 3/4" CAST ALUMINUM ANCHOR RING IS WELDED 1" ABOVE BOTTOM OF BASE TO ACCEPT (4) FULLY GALVANIZED ANCHOR BOLTS. EACH BOLT SUPPLIED WITH TWO NUTS AND TWO WASHERS. ANCHORAGE IS FASTENED THROUGH HAND HOLE.

FINISH

ELECTROSTATICALLY APPLIED BAKED ON TEXTURED ACRYLIC ENAMEL. (SEE PAGE 5 FOR OPTIONAL FINISH AND COLOR SELECTION)





POLE ACCESSORIES (SPECIFY AS SUFFIX TO CAT. NO.)

TENONS

STANDARD: 2 7/8" O.D. PT23
 OPTIONS: 2 3/8" O.D. PT31
 3 1/2" O.D.

DUPLEX OR G.F.I. RECEPTACLE WITH COVER DUP GFI

FIELD ROTATABLE OR FIXED BANNER ARM RBA
 FBA

BANNER EYE BOLT BEB

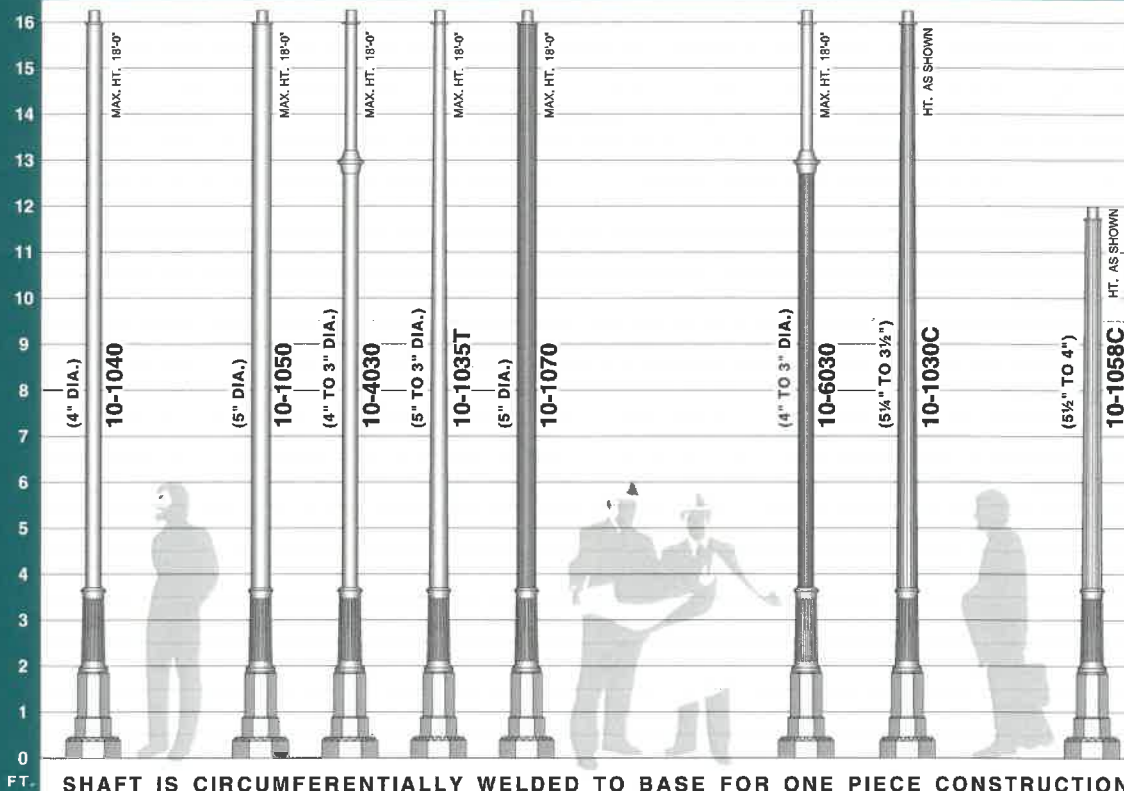
BREAK AWAY BANNER ARM BBA

FIELD ROTATABLE OR FIXED BASKET HOLDER RBH
 FBH

FIELD ROTATABLE STREET SIGN RSS

FIELD ROTATABLE LADDER REST RLR

1 3/8" I.D.
 FIELD ROTATABLE OR FIXED FLAG HOLDER RFH
 FFH



SHAFT IS CIRCUMFERENTIALLY WELDED TO BASE FOR ONE PIECE CONSTRUCTION
 SEE SHAFT SECTION FOR SPECIFICATIONS AND ADDITIONAL STYLES

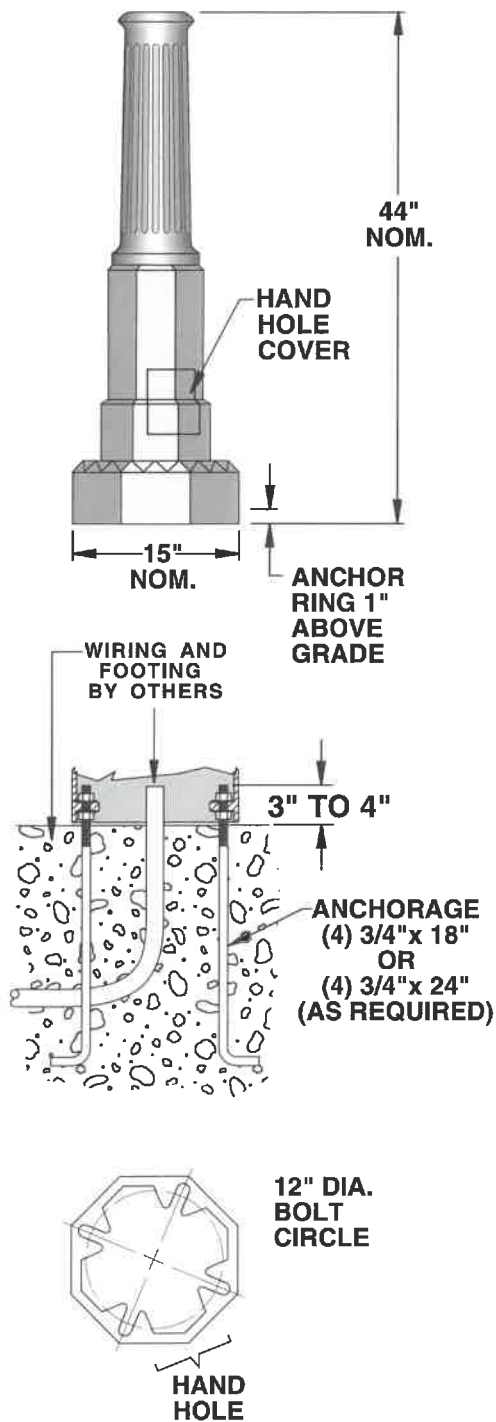


sun valley
 LIGHTING

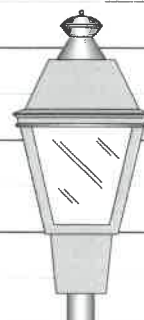
100 WEST AVENUE, SUITE 100, SAN JOSE, CA 95128
 (408) 253-0000
 FAX (408) 253-0001
www.sunvalleylighting.com



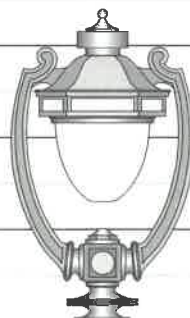
SUGGESTED LUMINAIRES



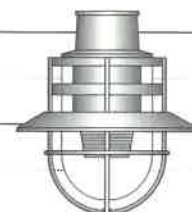
LCGR-YF



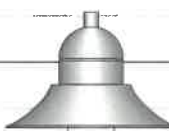
CMPN



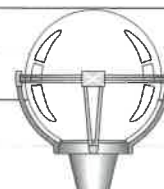
LCWB



OV1



DSC1



RCGV18

SEE LUMINAIRE SECTION
FOR ADDITIONAL STYLES

4
3
2
1
0
4
3
2
1
0
4
3
2
1
0
FT.

SOLID STATE AREA LIGHTING

GLR SERIES-LED

SPECIFICATIONS

LUMINAIRE

Prismatic borosilicate glass refracting lens. Heavy gauge, corrosion resistant cast aluminum base. Top is hinged for access. Luminaire base has 3" I.D. opening for tenon. All hardware is stainless steel.

LED POWER ARRAY™

Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic lens and end cap protects the LED Tube's internal components.

VERTICAL POWER™ ARRAY WITH REFRACTING

GLOBE: LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Used in conjunction with the external prismatic refracting lens which provides the optical control.

LED EMITTERS

High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult factory for other LED options.

LED DRIVER

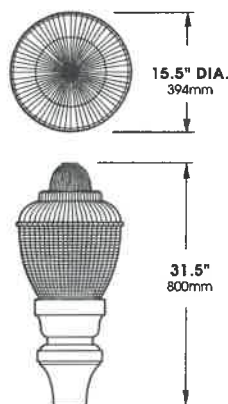
UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for (347-480VAC). Driver is mechanically fastened to a retaining bracket. Main Power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

PROJECT NAME: _____

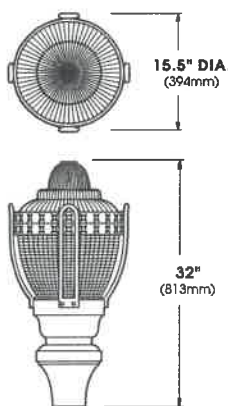
PROJECT TYPE: _____



GLR*

*SHOWN WITH -YD FITTER

PATENT PENDING



GLRC*

*SHOWN WITH -YD FITTER

PATENT PENDING



2013140

GLR SERIES - LED

SPECIFICATIONS

OPTIONAL FITTERS



ACCESSORIES

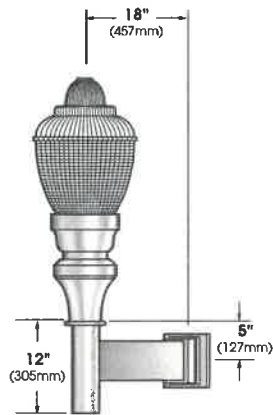
BRASS FINIAL BF

ORNAMENTAL FINIAL PF

DECORATIVE ALUMINUM HOOD H

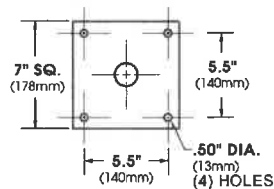
HOUSE SIDE SHIELD
90°, 135°, 180°
HS90°
HS135°
HS180°

WALL MOUNT



EXTRUDED ALUMINUM ARM BRACKET AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

WALL PLATE



LED POWER ARRAY™ MODULES



GLR-LED E.P.A. = 1.39

Available in:
6 Array 48LED Max.
8 Array 64LED Max.
10 Array 80LED Max.



GLRC-LED E.P.A. = 1.50

Available in:
6 Array 48LED Max.
8 Array 64LED Max.
10 Array 80LED Max.



(Specifications subject to change without prior notice.)

PATENT PENDING

ORDERING INFORMATION

LUMINAIRE	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS
LUMINAIRE	OPTICS	LED			MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> GLR-YC-LED <input type="checkbox"/> GLR-YD-LED <input type="checkbox"/> GLR-YE-LED <input type="checkbox"/> GLRC-YC-LED <input type="checkbox"/> GLRC-YD-LED <input type="checkbox"/> GLRC-YE-LED	VERTICAL POWER ARRAY (CLEAR PRISMATIC GLOBE) <input type="checkbox"/> VPA - III <input type="checkbox"/> VPA - V	<input type="checkbox"/> 80LED (90 Watts) <input type="checkbox"/> 64LED (71 Watts) <input type="checkbox"/> 48LED (53 Watts) <input type="checkbox"/> 36LED (41 Watts) <small>Wattages are Max Input Watts</small>	<input type="checkbox"/> NW (4000K)* *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) <small>OTHER LED COLORS AVAILABLE CONSULT FACTORY</small>	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	ARM MOUNT <input type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> 4-90 WALL MOUNT <input type="checkbox"/> WM POST TOP <input type="checkbox"/> PT	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500) <small>SEE USALTG.COM FOR ADDITIONAL COLORS</small>	<input type="checkbox"/> BRASS FINIAL BF <input type="checkbox"/> ORNAMENTAL FINIAL OF <input type="checkbox"/> DECORATIVE ALUMINUM HOOD H <input type="checkbox"/> HOUSE SIDE SHIELD... HS <input type="checkbox"/> DIMMABLE DRIVER(S) (0-10V) DIM <input type="checkbox"/> HIGH/LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR HLSW <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) PC+V <input type="checkbox"/> 10KV SURGE PROTECTOR 10SP <input type="checkbox"/> 20KV SURGE PROTECTOR (277V & 480V Only) 20SP

6200 OXFORD SERIES

SPECIFICATIONS

GENERAL

The ____ ft tall* decorative post shall be aluminum, one-piece construction. The 18" diameter cast aluminum fluted base shall be constructed with a ____ inch diameter aluminum shaft. The model shall be Sternberg Lighting Number #6200 or #6200R for candy cane poles. The pole shall be U.L. or E.T.L. listed in U.S. and Canada.

CONSTRUCTION

The base shall be designed with sixteen long curved flutes which gracefully slope to a decorative scalloped ring and be made of heavy wall, 356 alloy cast aluminum. It shall have a 1" thick floor cast as an integral part of the base.

The smooth tapered shaft shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

The smooth straight shaft shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

The straight fluted shaft shall be made of ASTM 6061 extruded aluminum and tempered to a T6 condition. It shall have a decorative fluted 3" O.D. tenon.

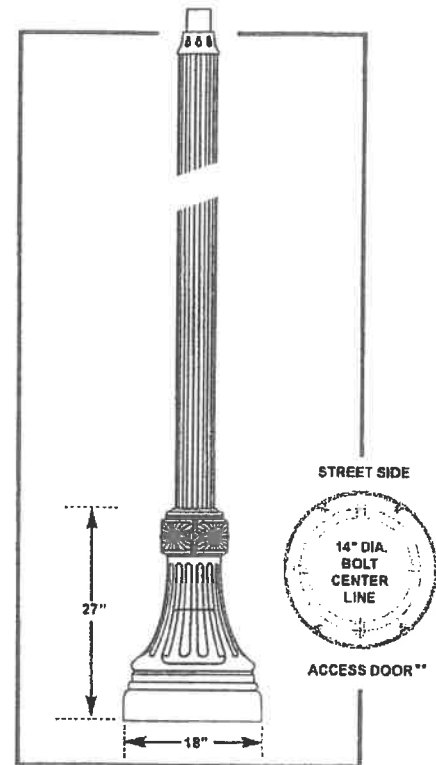
The cast tapered fluted shaft shall be made of heavy wall, 356 alloy cast aluminum.

The extruded tapered fluted shaft shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

The tapered octagonal shaft shall be made of heavy wall, 356 alloy cast aluminum. The shaft shall be double circumferentially welded internally and externally to the base for added strength.

INSTALLATION

Four 3/4" diameter, hot-dipped galvanized "L" type anchor bolts shall be provided with the post for anchorage. A door shall be provided for wiring and anchor bolt access. It shall be secured with tamper proof, stainless steel hardware. Post will be provided with a grounding stud mounted on the base floor opposite the access door.



** See installation template for exact door position. Bolt circle dimensions may change on taller poles.

Indicate the type of shaft needed (above)

Cast Aluminum-Extruded Poles

18" Diameter Base x 27" High

NOTE:
20' and taller poles available with clamshell or slip over bases.

5" - 3" OD	6" - 3" OD	5" OD	6" OD	6" - 3" OD	6" - 4" OD
62 -- 'T5	62 -- 'T6	62 -- 'FP5	62 -- 'FP6	62 -- 'TFP6	62 -- 'ETFP6
10' 12' 14'	10' 12' 14'	10' 12' 14'	10' 12' 14'	10' 12' 14'	12' 14'
16' 18'	16' 18'	16' 18'	16' 18'	16' 18'	16' 18'
SMOOTH TAPERED SHAFT	SMOOTH TAPERED SHAFT	↑ STRAIGHT FLUTED SHAFT	↑ STRAIGHT FLUTED SHAFT	TAPERED FLUTED SHAFT	TAPERED FLUTED SHAFT
↑ P5 SMOOTH STRAIGHT SHAFT AVAILABLE	↑ P6 SMOOTH STRAIGHT SHAFT AVAILABLE				

* For candy cane poles insert ____ AG ft (feet - above grade height). See diagram on reverse side.

↑ Tenon not supplied if fixture or arm slips shaft O D

6200 OXFORD SERIES

POSTS / OPTIONS / POST CAPS

BUILDING A PART NUMBER

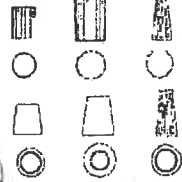
Straight Poles

MODEL / HEIGHT / SHAFT	POST CAP CENTER	OPTIONS	FINISH
62 16 FP5	BCC	FH	BK

Part Number Selections

MODEL	HEIGHT	SHAFT†
• 62	• 08'	• T5: 5'-3" Tapered Smooth
	• 10'	• T6: 6'-3" Tapered Smooth
	• 12'	• P5: 5' Straight Smooth
	• 14'	• P6: 6' Straight Smooth
	• 16"	• FP5: 5' Straight Fluted
	• 18'	• FP6: 6' Straight Fluted
		• TFP6: 6'-3" Tapered Fluted
		• ETFP6 6'-4" Tapered Fluted

FP5 - 5" FP6 - 6" TFP6 - 6'-3"



T5 - 5'-3" T6 - 6'-3" ETFP6 - 6'-4"

OPTIONS AVAILABLE

• GFI	• SBAR	• PCD
• GFB	• DSPA	• SH
• FH	• DHPA	• SB
• SBA	• PA478	• WHK
• DBA		

• DB Direct Burial • HB Helix Burial

POST CENTER CAP (If Required)
• BCC
• FCC
• SCC
• TFCC
• SSCC

STANDARD FINISHES*

• BKT	Black Textured
• WHT	White Textured
• PGT	Park Green Textured
• ABZT	Architectural Medium Bronze Textured
• DBT	Dark Bronze Textured

*Smooth Finishes are available upon request

CUSTOM FINISHES

• OI Old Iron

• RT	Rust
• WBR	Weathered Brown
• CD	Cedar
• WBK	Weathered Black
• TT	Two Tone

STERNBERG SELECT FINISHES

• VG	Verde Green
• SI	Swedish Iron
• OWGT	Old World Gray Textured

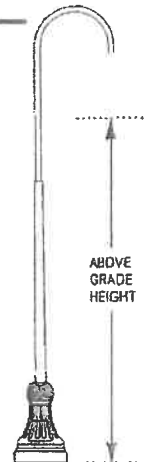
Candy Cane Poles

MODEL / HEIGHT / SHAFT	HEIGHT ABOVE GRADE	OPTIONS	FINISH
62 00 RT5	18 AG		BK

Part Number Selections

MODEL	HEIGHT	SHAFT†	ABOVE GRADE
• 62	• 00	• RT5: 5'-3" Tapered Smooth	• 08' AG
		• RT6: 6'-3" Tapered Smooth	• 10' AG
		• RP5: 5' Straight Smooth	• 12' AG
		• RP6: 6' Straight Smooth	• 13' AG
		• RFP5: 5' Straight Fluted	• 14' AG
		• RFP6: 6' Straight Fluted	• 16' AG
		• RTFP6: 6'-3" Tapered Fluted**	• 18' AG

** Available in 11, 13, 15, AG



† See first page for height restriction.

OPTIONS AVAILABLE

See Accessories Section for more options and information



GFI - Ground Fault Interrupter mounts in the pole



GFB - Ground Fault Breaker inside base



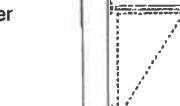
FH - Flag Pole Holder mounts on the pole



SBA - Single Banner Arm mounts on the pole



DBA - Double Banner Arms mount on same side of the pole



SBAR - Single Banner Arm and Ring



DSPA - Double Stepped Planter Arms mount on either side



DHPA - Double Hooked Planter Arms mount on either side



PA478 - Decorative Planter Arms with planter rings



PCD - Photo Control mounts on door on pole



SH - Speaker Hub for mounting speaker, floodlight or signal



SB - Sign Bracket mounts on pole to hold signs



WHK - Wreath Hook mounts on pole to hold decorations

POST CENTER CAPS (If Required)



BCC - Ball Center Cap



FCC - Finial Center Cap



SCC - Spiked Center Cap



TFCC - Tall Finial Center Cap



SSCC - Side Spiked Center Cap



SternbergLighting
ESTABLISHED 1923 / EMPLOYEE OWNED

555 Lawrence Ave. Roselle, IL 60172 • 847-588-3400 • Fax 847-588-3440
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A840-XRLED OLD TOWN SERIES

LED

EPA
1.06 (ft²)
WEIGHT
30 LBS

5 YEAR
WARRANTY
5

LUMEN
RANGE
5,100 to
1,565

LIFE SPAN
L70
MINIMUM
50,000
HOURS

UL
LISTED

CLICK
FOR FAQ's

JOB NAME

FIXTURE TYPE

MEMO

BUILD A PART NUMBER

ORDERING EXAMPLE: **2A-A840-5P-XRLED-12L45T5-MDL14-A-PEC-FHD/480PM/4212FP4/BKT**

Mounting Config.	Fixture	Fitter	LED	CCT	Type	Driver	Lens	Option Control Receptacle	Option Control	Option Fuse	Option Deco. Ring	Option GFI	Option Terminal Block	Option House Side Shield	Arm See Arm Spec Sheets	Pole See Pole Spec Sheets	Finish

Mounting Configuration

(Click here to view mounting configuration sheet)

- IW • 2A • 3A90 • 1AM
- PT • 2A90 • 3APT • 2AM
- 1A • 2APT • 4A • 450PB
- 1APT • 3A • 4APT

W = Wall Mount PT = Post Top APT = Post Top Arm Mid-Mount
A = Arm Mount AM = Arm Mid-Mount PB = Pier Base

Fixture

- A840 • A84OSR

Fitter

- 5P¹ • 991¹ • 995¹ • OLF3¹
- 73 • 992¹ • BD4 • OLF4¹
- 74 • 993¹ • BD5 • 588
- 990¹ • 994¹ • BD7 • C2097¹

¹ Add "T" after fitter designation for optional "Twist-lock" fitter.

LED

- XRLED-9L • XRLED-12L

CCT - Color Temperature (K)

- 45(00) • 35(00) • 27(00)

Type

- T2 • T3 • T4 • T5

Driver

- MDL07 (120v-277v, 700Ma)²
- MDL14 (120v-277v, 1400Ma)
- MDH07 (347v-480v, 700Ma)²
- MDH14 (347v-480v, 1400Ma)

² For use with 9L system only.

Lens

- A (Acrylic)
- WA (White Acrylic)
- P (Polycarbonate)
- WP (White Polycarbonate)

Options (Click here to view accessories sheet)

- R³ 3-Pin control receptacle only
- R5³ 5-Pin control receptacle only
- R7³ 7-Pin control receptacle only
- PE⁴ Twist-Lock Photocontrol (120v-277v)

- PE3⁴ Twist-Lock Photocontrol (347v)
- PE4⁴ Twist-Lock Photocontrol (480v)
- SC⁴ Shorting Cap
- PEC Electronic Button Photocontrol (120v-277v)
- PEC⁴ Electronic Button Photocontrol (480v)
- FHD⁵ Double Fuse and Holder
- CDR Cast Decorative Ring
- CDRCL⁶ Cast Decorative Ring with Custom Logo
- PBDR⁷ Perforated Brass Decorative Ring
- G³ 15A Duplex GFI for Utility Fitter
- TB³ Terminal Block
- HSS 120" House Side Shield

³ For 900 series fitter only.

⁴ Requires control receptacle.

⁵ Ships loose for installation in base.

⁶ Consult factory for specification details.

⁷ Standard is polished, for painted ring specify PBDR-P.

Arm (Click here to link to arm specification page)

See Arms & Wall Brackets specification sheets.

- 478 • 55 • 579 • 80/480 • 6236 • TASC

Pole (Click here to link to pole specification page)

See Pole specification sheets.

Finish

Standard Finishes⁸

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

⁸ Smooth finishes are available upon request.

Custom Finishes⁹

- CM Custom Match
- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

⁹ Custom colors require upcharge.

Sternberg Select Finishes

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

Specifications

Fixture

The fixture shall be 14-1/4" in diameter and 37-3/4" tall. Acorn will be made of vandal resistant clear textured polycarbonate or dent resistant (DR) clear textured acrylic. White textured is also available. The fixture is available in a solid roof (A84OSR) for added distinction and reduced up-light. The solid roof will be made of spun aluminum and securely affixed to the top of the acorn. The optional perforated brass decorative ring (PBDR) is available in polished brass or painted finish. The 2-1/4" wide brass filigree allows light transfer through the decorative openings. The Luminaire shall be UL listed in US and Canada.

Fitter - Standard

The fitter shall be heavy wall cast aluminum, 356 alloy for high tensile strength. It shall have an 8-1/2" inside diameter opening to attach to the 8" neck of the acorn globe. When ordered with a Sternberg aluminum pole, the fitter shall be welded to the pole top or tenon for safety and to ensure the fixture will be plumb, secure and level over the life of the installation. The fitter shall have a one-piece ring bug gasket to resist insect penetration into lamp assembly.

900 Series Utility Fitter Option

The fitter shall be heavy wall cast aluminum, 360 die cast alloy for high tensile strength. It shall have a 9-1/4" inside diameter opening to attach to the 8" neck of the acorn globe. It shall have a hinged, tool-less entry door that provides open access to all of the components. The 900 series shall have an optional terminal block for ease of wiring, an optional Twist-Lock Photocontrol receptacle, an optional single GFCI outlet for auxiliary power needs. The top mounted ballast mounting plate shall be cast aluminum and provide tool-less removal from the housing using 2 finger latches. When ordered with a Sternberg aluminum pole, the fitter shall be set screwed to the pole top or tenon. The fitter shall have a one-piece ring bug gasket to resist insect penetration into lamp assembly.

See next page



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A840-XRLED OLD TOWN SERIES

LED

Twist-Lock Fitter (Optional)

The TL (Twist-Lock) fitter shall have an aluminum die-cast twist-lock mechanism. The tool-less 1/4 turn action allows for easy globe removal and replacement. A die-cast ring assembly is mechanically attached to the globe and is removable if the globe is broken or replaced.

LEDs

The luminaire shall use high output, high brightness LED's. They shall be mounted in arrays, on printed circuit boards designed to maximize heat transfer to the heat sink surface. The arrays shall be downward facing to minimize up-light. The LED's and printed circuit boards shall be environmentally friendly and 100% recyclable, they shall also be protected from moisture and corrosion by a conformal coating of 1 to 3 mils. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. The LED life rating data shall be determined in accordance with IESNA LM-80. They shall operate in a -40°C (-40°F) to +50°C (122°F) ambient air temperature range. The High Performance white LED's will have a life expectancy of approximately 50,000 hours with not less than 70% of original brightness (lumen maintenance), rated at 25°C. The High Brightness, High Output LED's shall be 4500K (3500K or 2700K option) color temperature with a typical of 70 CRI. Consult factory for custom color CCT. The luminaire shall have a minimum _____ (see table) delivered initial lumen rating when operated at steady state with an average ambient temperature of 25°C (77°F).

Optics

The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ____ (2, 3, 4 or 5) light distribution per the IESNA classifications. Testing shall be done in accordance with IESNA LM-79.

Electronic Drivers

The LED driver shall be U.L. Recognized. It shall be securely mounted inside the fixture, for optimized performance and longevity. It shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation. It shall have overload as well as short circuit protection, and have a DC voltage output, constant current design, 50/60HZ. It shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It shall be dimmable using a 0-10V signal.

For sources over 50w: The driver shall have a minimum efficiency of 90%. The driver shall be rated at full load with THD<20% and a power factor of greater than 0.90. The driver shall contain over-heat protection which reduces output to less than half rating if the case temperature reaches 85°C.

For sources under 50w: The driver shall have a minimum efficiency of 88%.

Photocontrols

Button Style: On a single assembly the photocontrol shall be mounted on the fixture and pre-wired to driver. On multiple head assembly's the photocontrol shall be mounted in the pole shaft on an access plate. The electronic button type photocontrol is instant on with a 5-10 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

Twist-Lock Style: The photocontrol shall be mounted in the utility fitter and pre-wired to driver. The twist lock type photocontrol is instant on with a 3-6 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

Warranty

Five-year limited warranty. See product and finish warranty guide for details.

Finish

Refer to website for details.

Performance

LIGHT SOURCE	T2 DELIVERED LUMENS	EFFICACY (LPW)	T3 DELIVERED LUMENS	EFFICACY (LPW)	T4 DELIVERED LUMENS	EFFICACY (LPW)	T5 DELIVERED LUMENS	EFFICACY (LPW)	WATTAGE
12L27T_-MDL14	3745	64.6	3630	62.6	3760	64.8	3920	67.6	58
12L35T_-MDL14	4500	77.6	4360	75.2	4510	77.8	4705	81.1	58
12L45T_-MDL14	4875	84.1	4725	81.5	4890	84.3	5100	87.9	58
09L27T_-MDL14	2625	58.3	2550	56.7	2520	56.0	2660	59.1	45
09L35T_-MDL14	3415	75.9	3315	73.7	3275	72.8	3460	76.9	45
09L45T_-MDL14	3700	82.2	3590	79.8	3550	78.9	3745	83.2	45
09L27T_-MDL07	1660	79.0	1575	75.0	1565	74.5	1670	79.5	21
09L35T_-MDL07	1995	95.0	1890	90.0	1880	89.5	2005	95.5	21
09L45T_-MDL07	2160	102.9	2045	97.4	2035	96.9	2170	103.3	21



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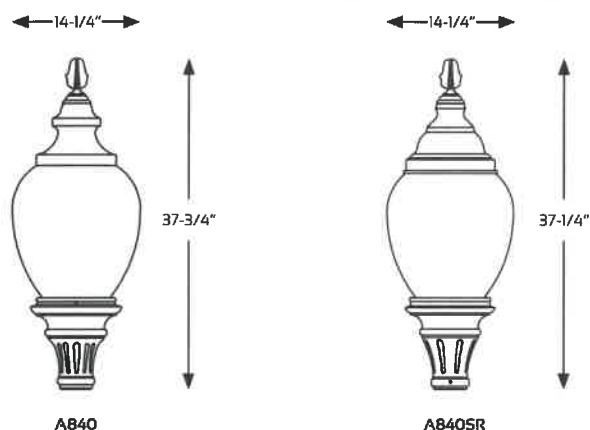
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A840-XRLED OLD TOWN SERIES

LED

Fixtures



Fitters

10-1/8" W
10-3/8" H



5P or 5T*
Fits 3" OD
x 3" tall
tenon/pole

10-1/8" W
10-1/8" H



BD4
Fits 4" OD
x 5" tall
tenon/pole

10-1/8" W
10-1/4" H



BD5
Fits 5" OD
x 6" tall
tenon/pole

10-1/8" W
11-3/4" H



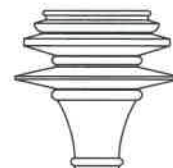
BD7
Fits 7" OD
x 1" tall
tenon/pole

9-3/4" W
13-1/4" H



73
Fits 3" OD
x 4" tall
tenon/pole
74
Fits 4" OD
x 4" tall
tenon/pole

14-1/2" W
14-1/4" H



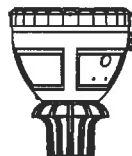
**588
(Art Deco I)**
Fits 3" OD
x 3" tall
tenon/pole

10-1/2" W
15-3/4" H



990 or 990T*
Fits 3" OD
x 3" tall
tenon/pole
994 or 994T*
Fits 4" OD
x 3" tall
tenon/pole

10-1/2" W
13-1/8" H



991 or 991T*
Fits 3" OD
x 3" tall
tenon/pole

10-1/2" W
13-1/8" H



992 or 992T*
Fits 3" OD
x 3" tall
tenon/pole

10-1/2" W
15-3/4" H



993 or 993T*
Fits 3" OD
x 3" tall
tenon/pole
995 or 995T*
Fits 4" OD
x 3" tall
tenon/pole

10-1/2" W
11-3/8" H



OL3 or OL3T*
Fits 3" OD
x 3" tall
tenon/pole
OL4 or OL4T*
Fits 4" OD
x 3" tall
tenon/pole

10" W
3-1/4" H



**C2097 or
C2097T***
Fits 7" OD
x 1" tall
tenon/pole

*Twist Lock Acorn (Fitter TL)



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