Exterior Building Color & Material Samples

Color Drawdowns

Archaeological Resources

Airport Vicinity Development Checklist

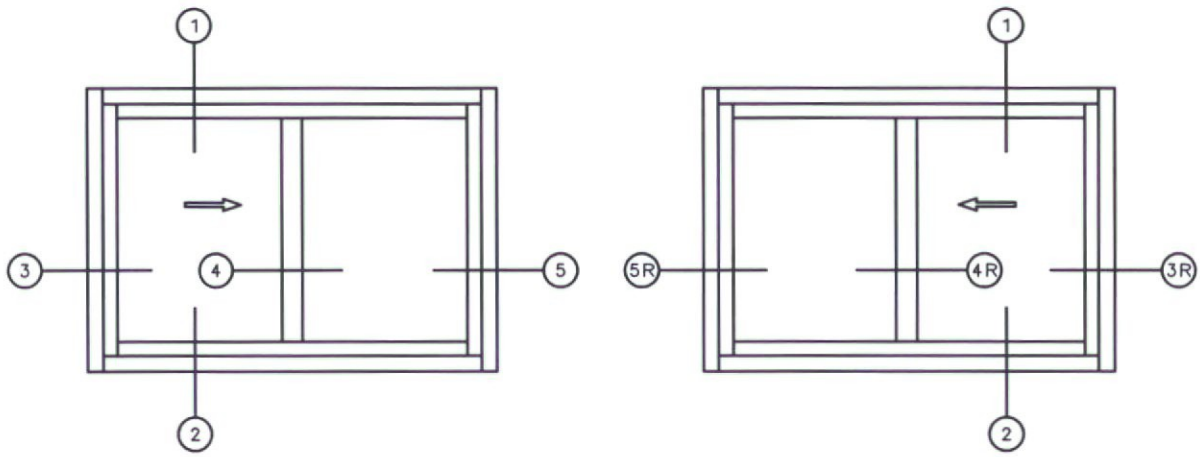
Parking Study

Trip Generation Comparison

Parking Master Plan

Samples/Misc.

Ambassador 8200 SERIES | Horizontal Sliding



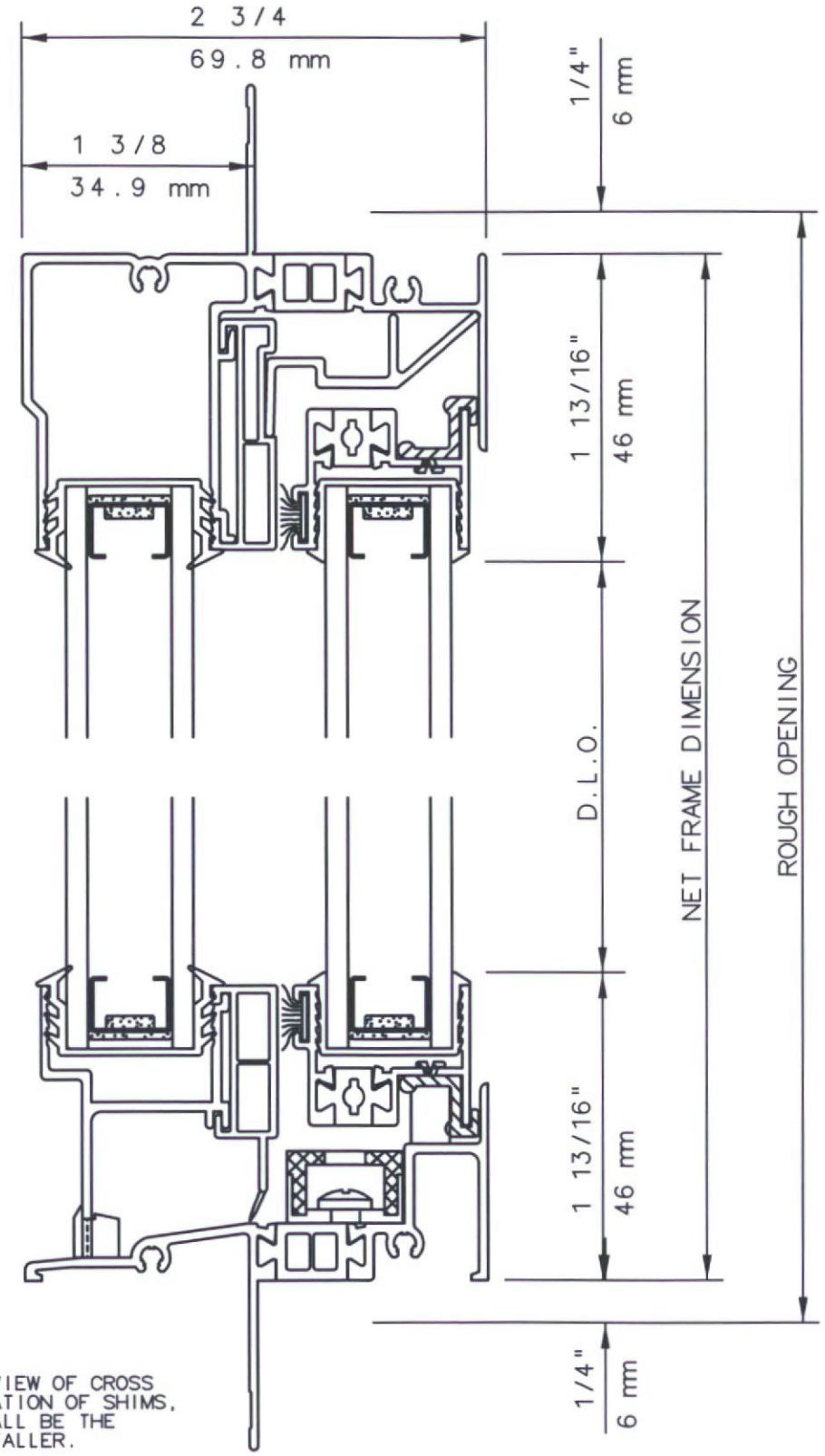
XO OX

General Notes:
Not to Scale
Due to continual product development, detail and technical data are subject to change without notice
For latest product specifications please go to our website: www.intlwindow.com or contact your IWC Representative
This is an architectural view of cross sections only and installation of shims, fasteners and sealant shall be the responsibility of the installer

11-HP-2016
6/28/2016

IWC

SERIES 8220 HORIZONTAL SLIDE WINDOW
VERTICAL CUT DETAIL 1&2



NOTE:

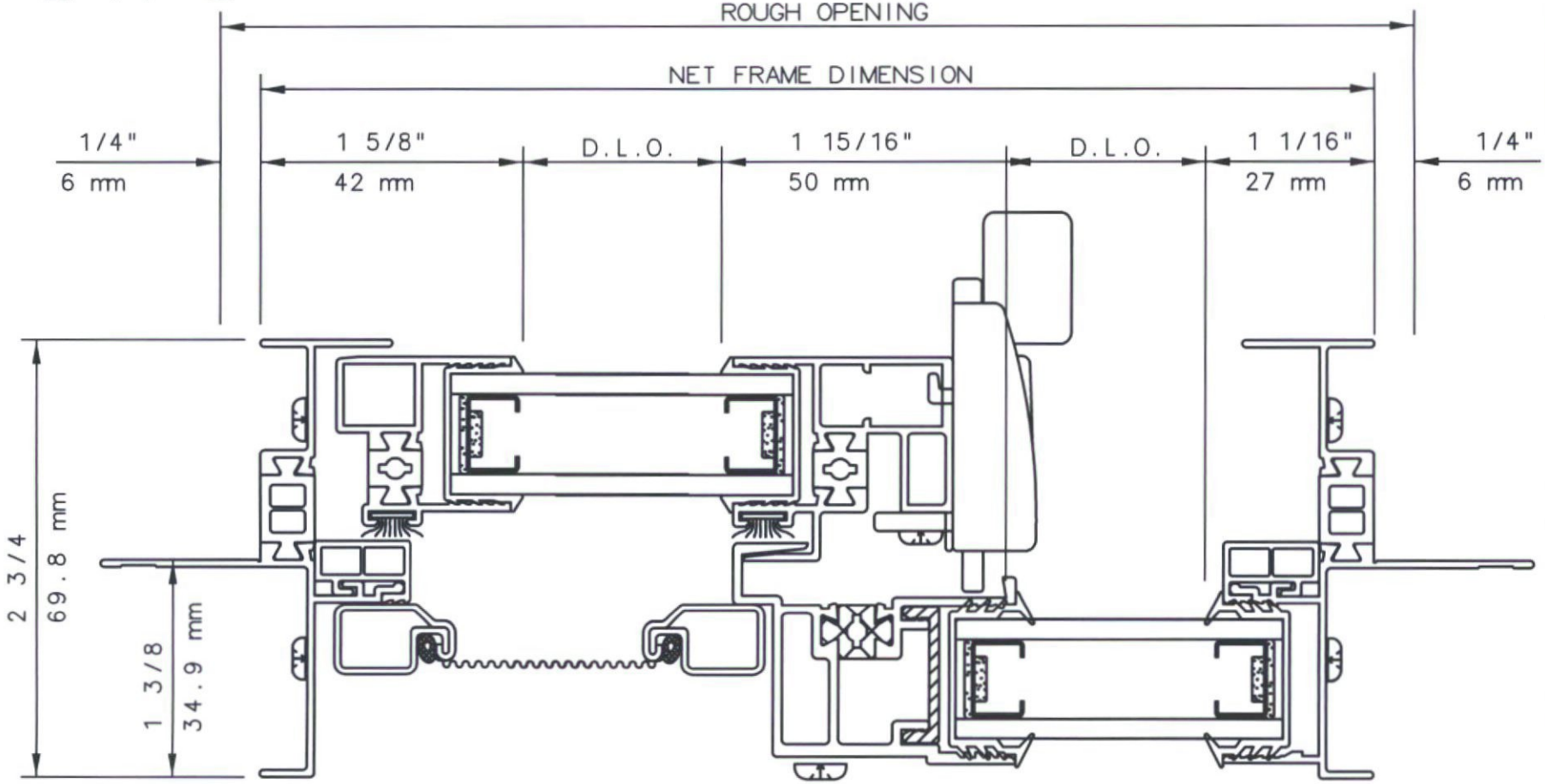
THIS IS AN ARCHITECTURAL VIEW OF CROSS SECTIONS ONLY AND INSTALLATION OF SHIMS, FASTENERS, AND SEALANT SHALL BE THE RESPONSIBILITY OF THE INSTALLER.

INTERNATIONAL WINDOW - NORTHERN CAL.
30526 SAN ANTONIO STREET
HAYWARD, CALIFORNIA 94544
(510) 487-1122 ORDER DESK (510) 487-1234
FAX # (510) 471-9387 OR (510) 489-3020

INTERNATIONAL WINDOW CORPORATION
1551 EAST ORANGETHORPE AVE.
FULLERTON, CALIFORNIA 92831
(562) 928-6411 (800) 477-4032
FAX # (562) 928-3492

IWC

SERIES 8220 HORIZONTAL SLIDE WINDOW XO
HORIZONTAL CUT DETAIL 3, 4, & 5



NOTE:

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INTERNATIONAL WINDOW - NORTHERN CAL.
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FULLERTON, CALIFORNIA 92831
(562) 928-6411 (800) 477-4032
FAX # (562) 928-3492

1765 E Meadowbrook Ave Scottsdale Villa Monterey

Legend

L1. 2"-4" Table Mesa Rip Rap Swale.
L2. Landscape Mounding to the contours shown. (typ.)
L4. 32"H CMU wall with painted stucco finish in body paint color.
L5. Colored concrete in Solomon Colors color 242 Sahara.
L6.Up light, FX Luminaire QZ: LEDUp Light. (5)
L8. Lighting transformer.
L9. Tap into exist. H2O w/copper tap, install back flow device & drip irrigation valve assembly in a box.
L10. Extend drip irrigation to all new plants.
L11. Partially bury boulders for a natural appearance.

Plant Palette

Tree, 36" box, Palo Verde- 1
Cacti, Shrubs, Succulents, 5 gal
1. Slipper Flower- 3
2. Octopus Agave- 2
3. Argentine Hedgehog- 3
4. Argentine Giant- 2
5. Gold Barrel Cactus- 3

Groundcovers 1 Gal
A. Trailing Lantana- 6
B. White Lantana- 3
C. Gold Mound Lantana- 2

Boulder- Partial buried surface Select
3 Med, 2 Sm

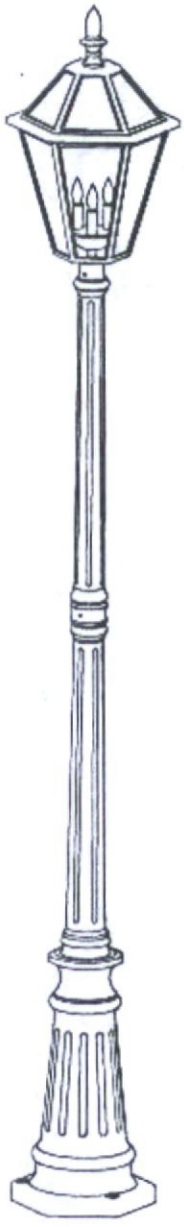
ITEM #0525864

POST LANTERN

MODEL #12513LE

Français p. 8

Español p. 15



ATTACH YOUR RECEIPT HERE

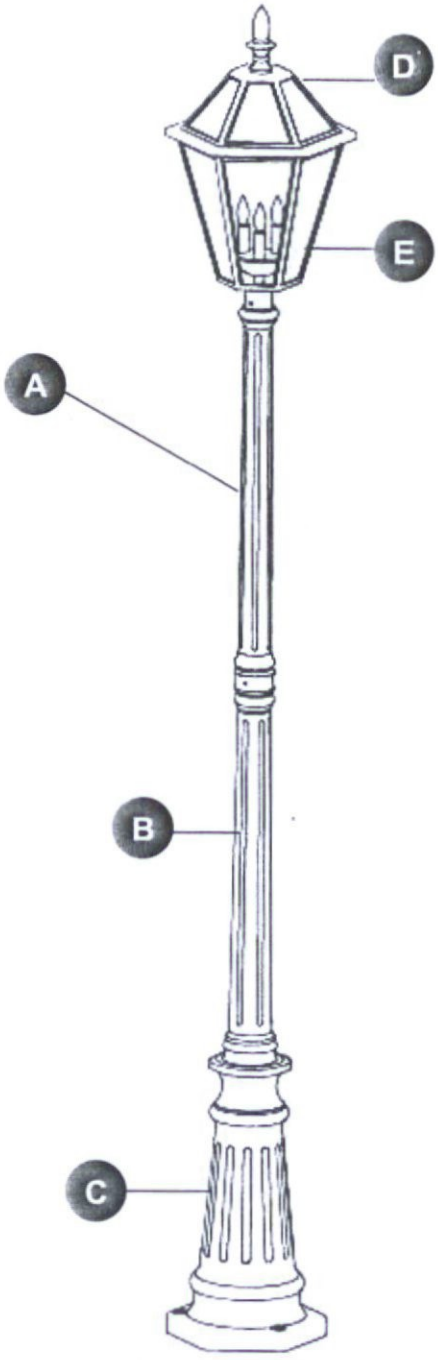
Serial Number _____ Purchase Date 6/26/2016

Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-800-643-0067, 8 a.m. - 6 p.m., EST, Monday - Thursday, 8 a.m. - 5 p.m., EST, Friday.

EB15192

11-HP-2016
6/28/2016

PACKAGE CONTENTS



PART	DESCRIPTION	QUANTITY
A	Top Pole	1
B	Middle Pole	1
C	Base	1
D	Cover	1
E	Fixture	1

HARDWARE CONTENTS (not shown actual size)

AA

Mounting Bracket

Qty. 1

BB

Anchor Bolt

Qty. 3

CC

Cap Nut

Qty. 3

DD

Washer

Qty. 3

EE

Wire Nut

Qty. 3

FF

Wrench

Qty. 1

GG

Thumbscrew

Qty. 2

SAFETY INFORMATION

Please read and understand this entire manual before attempting to assemble, operate or install the product.

WARNING:

•Turn off electricity at main fuse box (or circuit breaker box) before beginning installation by removing fuse (or switching off circuit breaker).

•Be careful not to damage or cut the wire insulation (covering) during fixture installation. Do not permit wires to contact any surface having a sharp edge. To do so may damage or cut the wire insulation, which could cause serious injury or death from electric shock.

CAUTION:

•All electrical connections must be in agreement with local codes, ordinances or the National Electric Code (NEC). Contact your municipal building department to learn about your local codes, permits and/or inspections.

•Risk of fire — most dwellings built before 1985 have supply wire rated for 140° F/60° C. Consult a qualified electrician before installation.

•Do not connect this fixture to an electrical system that does not provide a means for equipment grounding. Never use a fixture in a two-wire system that is not grounded. If you are not sure your lighting system has a grounding means, do not attempt to install this fixture. Contact a qualified, licensed electrician for information with regards to proper grounding methods as required by the local electrical code in your area.

•If a dimmer control switch is used with this fixture, obtain professional advice to determine the correct type and electrical rating required.

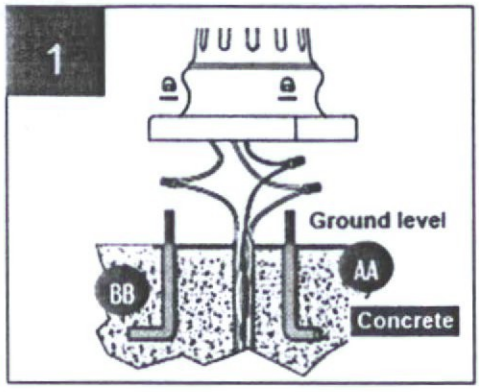
PREPARATION

Before beginning to assemble or install lighting fixture, make sure all parts are present. Compare parts with package contents list and hardware contents list. If any part is missing or damaged, do not attempt to assemble, install or operate the product.

Estimated Assembly Time: 30 minutes.
Tools Required for Assembly (not included): Concrete, Flathead Screwdriver, Phillips Screwdriver, Pliers, Electrical Tape, Wire Cutters, Safety Glasses, Ladder, Wire Stripper, 1/2 in. Wrench.

ASSEMBLY INSTRUCTIONS

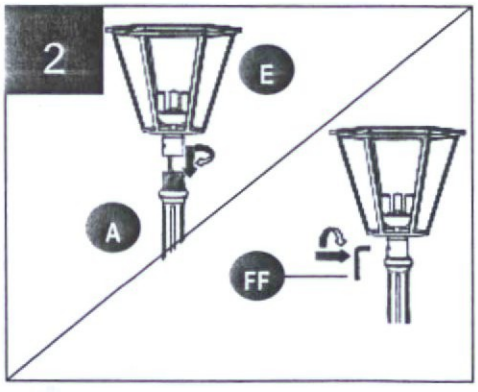
1. Excavate an area in the ground deep enough to enclose the height of the anchor bolts (BB) and wide enough for the mounting bracket (AA). Route the electrical wire from the power supply underground and out through the middle of the installation area. Screw the anchor bolts (BB) into the mounting bracket (AA). Fill hole with concrete (not included) and insert the assembly before the concrete dries.
   Note: The mounting bracket (AA) should be at ground level, with the anchor bolts (BB) 1.9 in. above the ground. The approximate length of supply wires that should be out of the concrete is 6-8 inches.



Hardware Used

AA	Mounting Bracket		x 1
BB	Anchor Bolt		x 3

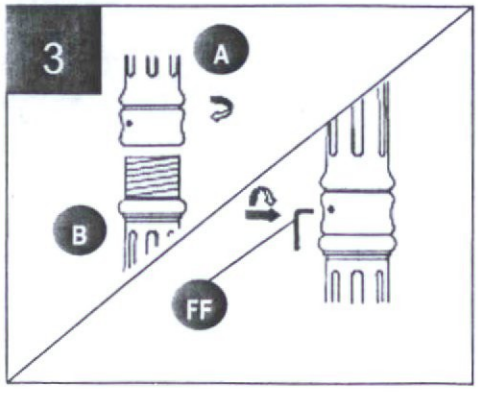
2. Secure the fixture (E) to the top pole (A), securing with the preassembled set screws. Tighten with 3 mm wrench (FF).



Hardware Used

FF	Wrench		x 1

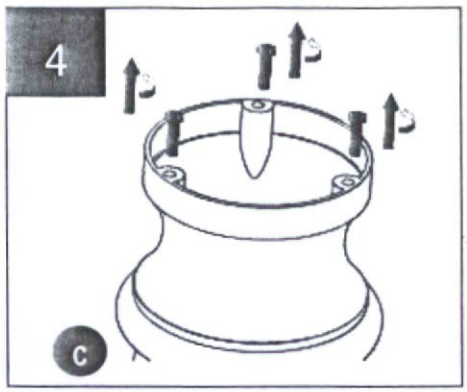
3. Remove the preassembled set screw from the middle pole (A) and screw the middle pole (A) clockwise onto the bottom pole (B). Re-insert set screw, then tighten with wrench (FF).



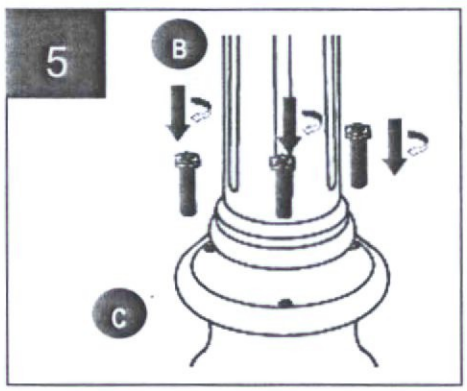
Hardware Used

FF	Wrench		x 1

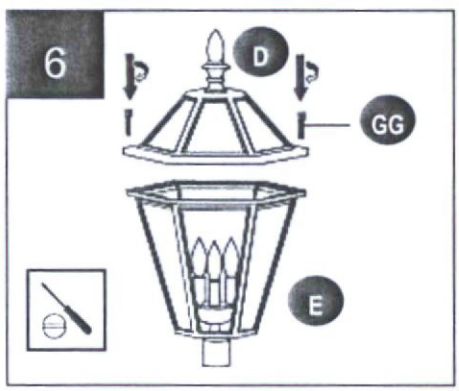
4. Remove the preassembled screws from the base (C) with a Phillips screwdriver (not included). Save for later use.



5. Secure the middle pole (B) to the base (C) with the previously removed screws. Tighten with a Phillips screwdriver.



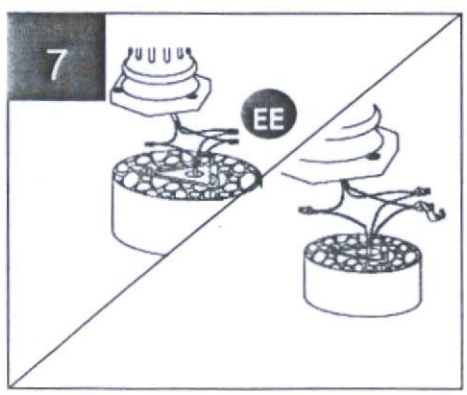
6. Insert bulbs (not included). Use 40-watt max. candelabra-base (E12) incandescent bulbs. Then, attach the cover (D) to the fixture (E) with thumbscrews (GG). Tighten with flathead screwdriver (not included).



Hardware Used

GG Thumbscrew		x 2

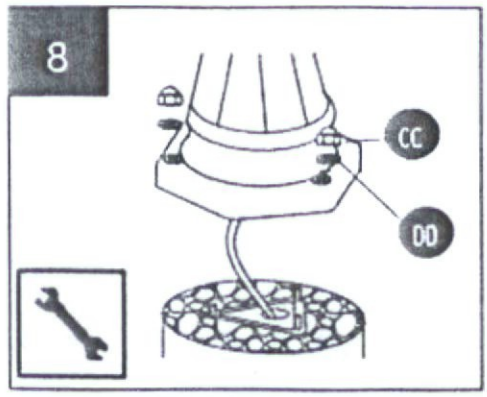
7. Connect bare ground wire from the base (C) to the ground wire from the concrete by twisting a wire nut (EE) onto bare ends of the wires. Connect white wire from the base (C) to the white wire from the concrete by twisting a wire nut (EE) onto bare ends of the wires. Connect the black wire from the base (C) to the black wire from the concrete by twisting a second wire nut (EE) onto the bare ends of the wires. Secure the wire nuts (EE) with electrical tape (not included).



Hardware Used

EE Wire Nut		x 3

8. With the help of another person, place the assembly over the mounting bracket (AA) and anchor bolts (BB). Secure with the cap nuts (CC) and washers (DD). Tighten with a 1/2 in. wrench (not included).
   CAUTION: Allow the concrete to dry before installing the pole assembly.



Hardware Used

CC	Cap nut		x 3
DD	Washer		x 3

CARE AND MAINTENANCE

To clean, unplug lamp and wipe with a damp, non-abrasive cloth.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The light will not go on.	1. No power. 2. Fixture may be wired incorrectly. 3. Switch may be wired incorrectly.	1. Make sure lamp fixture is plugged in and power is on. 2. Check wiring. 3. Check wiring.
Fuse blows or circuit trips when fixture is turned on.	Crossed wires or power wire is grounding out.	Consult a certified electrician.
The fixture shakes in high winds.	1. The mounting bracket (AA) may be assembledincorrectly. 2. The screws and cap nuts may be secured incorrectly.	1. Make sure the mounting bracket (AA) was installed at ground level. 2. Make sure the screws and cap nuts were secured tightly.

3-YEAR LIMITED WARRANTY

If this product fails due to a defect in materials or workmanship within three (3) years from the date of purchase, return it along with proof of date of purchase and it will be replaced with the same or comparable model free of charge.

This warranty is void if damage or defect has resulted from accident, abuse, misuse or faulty repair. This warranty gives you specific legal rights and you may have other rights that vary from state to state.

IN NO EVENT WILL LIABILITY EXTEND TO ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL OR INDIRECT DAMAGES OF ANY KIND ARISING OUT OF THE USE OR MISUSE OF THIS PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU.

REPLACEMENT PARTS LIST

For replacement parts, call our customer service department at 1-800-643-0067, 8 a.m. - 6 p.m., EST, Monday - Thursday, 8 a.m. - 5 p.m., EST, Friday.

PART	DESCRIPTION	PART#
AA	Mounting Bracket	525864-hdwe
BB	Anchor Bolt	525864-hdwe
CC	Cap Nut	525864-hdwe
DD	Washer	525864-hdwe
EE	Wire Nut	525864-hdwe
FF	Wrench	525864-hdwe
GG	Thumbscrew	525864-hdwe

Printed in China

Pre-application Number: 427 PA 2016

Historic Residential Exterior Rehabilitation (HRER) Program

Scope of Work and Estimates

Instructions:
Itemize the specific work items and materials for eligible improvements planned for this project and the associated costs. To justify the budgeted amount, two (2) estimates for each work item shall be provided from qualified contractors, tradesperson or building product supply establishments as attachments to this application.

Scope of Work Items (Attach a separate sheet if necessary)	First Estimate Amount	Second Estimate Amount
1. Replace (2) front windows w/ more historically accurate	1,290.00	1,405.49
2. Repair stucco, masonry + fascia, prep, paint, restore	3,130.00	3,161.00
3. pop-outs above (2) front windows, reinstall		
4. downspout found onsite + add concrete splash		
5. pan		
6.		
7.		
8.		
9.		
10.		
12.		
13.		
14.		
15.		
Estimate Totals	4,420.00	4,566.49
Requested City Share (maximum of fifty (50) percent of the Higher Estimate)		2283.25

Planning and Development Services
7447 E Indian School Road Suite 105, Scottsdale, AZ 85251 Phone: 480-312-7000 Fax: 480-312-7088
City of Scottsdale's Website: www.scottsdaleaz.gov

11-HP-2016
6/28/2016

QUOTE

Elite Architectural Supply, LLC
14305 N 79th Street
Suite E
Scottsdale - AZ - 85260
Phone : 480-264-5409
Fax :

QUOTE - 70840

Details		Bid For	Ship To
Job Name		Barbara Ricketts	Barbara Ricketts
Created By	Jake Boldra		
Quote Date	06/02/2016		
Valid Untill	07/02/2016		

Line	Part	Dimensions	Product Image	Quantity	Price	Line Total
1	Ambassador 8200 Thermal Aluminum Windows Type - Horizontal Sliding Window, Frame -8280 - Block Frame, Configuration - XO , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 72 H : 36		1	469.39	469.39
2	Ambassador 8200 Thermal Aluminum Windows Type - Horizontal Sliding Window, Frame -8280 - Block Frame, Configuration - XO , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 72 H : 48		1	561.51	561.51
3	Ambassador 8200 Thermal Aluminum Windows Type - Horizontal Sliding Window, Frame -8280 - Block Frame, Configuration - XO , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 72 H : 48		1	561.51	561.51
4	Ambassador 8200 Thermal Aluminum Windows Type - Picture Window, Frame -8280 - Block Frame, Configuration - PW-XO , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 64 H : 60		1	608.12	608.12
> 5	Ambassador 8900 Thermal Aluminum Sliding Door Type - Sliding Glass Doors, Frame -8920 - 5 5/8â€• Nail On Frame - 1 3/8â€• Set Back, Configuration - DOOR-OX , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Tempered , Special Glass - NONE , Gas - Argon	6068 NFD 71-1/2"x79-1/4"		1	2039.05	2039.05
6	Ambassador 8200 Thermal Aluminum Windows Type - Picture Window, Frame -8220- 13/8 Nail Fin Set Back, Configuration - PW-XO , Finish - P - Bronze Anodized , Gnd Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 60 H : 51		4	439.21	1756.84

#1,290 INSTALLED

> Ambassador Series 8900 - Manufactured in Southern California. Extended lead time may apply.

QUOTE

Elite Architectural Supply, LLC
14305 N 79th Street
Suite E
Scottsdale - AZ - 85260
Phone : 480-264-5409
Fax :

QUOTE - 70840

Line	Part	Dimensions	Product Image	Quantity	Price	Line Total
7	Ambassador 8200 Thermal Aluminum Windows Type - Horizontal Sliding Window, Frame -8220- 13/8 Nail Fin Set Back, Configuration - XO , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 60 H : 16		4	293.70	1174.78
8	Ambassador 8200 Thermal Aluminum Windows Type - Horizontal Sliding Window, Frame -8220- 13/8 Nail Fin Set Back, Configuration - XO , Finish - P - Bronze Anodized , Grid Type - No Grid , Glass - LowExtreme Annealed , Special Glass - NONE , Gas - Argon	W : 50 H : 66		1	666.84	666.84
1	COMPONENT : P/N 50018 - BA - Bronze Anodized - Horizontal and Vertical Hollow Stacking Mullion, ALUMINUM Adds 1i¿½ to Width or Height as used : Stock Length 20 Ft - $300, Per Foot	Feet		20		110.10

Subtotal	Tax	Delivery	Labor	TOTAL
7948.15	0.00	0.00	1470.00	9418.15

INCL.

> Ambassador Series 8900 - Manufactured in Southern California. Extended lead time may apply.

Fenestration Testing Laboratory, Inc.

10235 8th Street • Rancho Cucamonga, CA 91730 • PH. (909) 477-4343 • FAX (909) 477-4348

TESTED FOR

INTERNATIONAL WINDOW CORP.
5625 Firestone Boulevard
South Gate, CA 90280

1.0 PURPOSE

The purpose of this report is to present the testing methods employed and the test results obtained during the performance testing of one (1) **Thermally Broken Aluminum Horizontal Sliding Window** described in paragraph 4.0 of this report.

2.0 TEST REFERENCES

2.1 NAFS – North American Fenestration Standard/specification for windows, doors, and skylights AAMA/WDMA/CSA 101/I.S.2/A440-08
Class R – PG20: Size Tested 3353 x 1829 mm (132 x 72 in) – Type HS

3.0 SUMMARY

The test results in paragraphs 5.0 and 6.0 indicate that the test sample described in paragraph 4.0 of this report complied with the performance requirements of the above referenced specifications.

4.0 SAMPLE SUBMITTED

SERIES:	**8220 Horizontal Slider XOX**
CONFIGURATION:	XOX Inside Slide
FRAME SIZE:	3353 mm x 1829 mm (132.01" x 72.01")
SASH SIZES:	918 mm x 1784 mm (36.14" x 70.25")
FIXED SIZE:	1480 mm x 1740 mm (58.27" x 68.50") Daylight Opening
GLASS:	All three lites contained 0.75" overall insulated glass with DS annealed glass on both sides.
SPACER:	The spacers were 1/2" wide, metal 'U' shaped, and single sealed.
GLAZING:	All lites were channel glazed with wrap around gasket.
WEEPAGE:	The sill outside face contained weeps as follows: a) Four 1.75" x 0.25" weep holes, one at each end and two at mid-span. A PVC gated weep cover was inserted into each weep hole. These weeps drained the active channel. b) Four 0.62" x 0.08" weep holes, one at each end and two at mid-span, to drain the fixed channel.
WEATHERING:	Each operable sash contained a strip of 0.220" overall high polypile with center fin full perimeter facing out.

HARDWARE: Each operable sash contained the following:

1) A metal cam lock with integral pull handle located 21" from each end of the lock stile. Each lock was fastened with a pair of #10 x 0.5" square drive PH screws. When locked, the tongue of the lock engaged a leg on the fixed interlock.
2) An adjustable nylon roller in metal housing at the bottom end of each stile. Each roller housing was fastened to its respective stile with a pair of #8 x 3/8" PPH screws.
3) The active rails contained a nylon glide at each end.

The head contained a PVC anti-lift block above the operable sash located at the mid-span of each sash.

CONSTRUCTION: The frame corners, sash corners, and fixed interlocks to frame joints were all mechanically joined. The frame corners with a pair of #6 x 2" PPH screws. The sash corners with a single #6 x 2" PPH screws. Each fixed interlock was fastened to the frame outside face at each end with a #8 x 3/8" square drive PH screw through a plastic washer.

The frame, fixed interlock, and sash extrusions were thermally broken with Insulbar® material. The frame thermal break gap measure 0.43" and the fixed interlock and sash extrusion thermal break gap measured 0.25". The sill, jambs, head, and fixed interlock all contained PVC snap-in inserts. Refer to the cross sections drawings for a more detailed description.

CAULKING: The frame corners were sealed full profile. The fixed interlock was sealed to the frame at each end where there was metal to metal contact.

ANCHORING: The frame nail-on fin was fastened to a 2" x 6" wooden buck with #8 x 1.63" PFH screws every 12 inches on center full perimeter. Wood furring was applied over the nail-on fin full perimeter and screwed into the wooden buck.

5.0 TEST PROCEDURES AND RESULTS

5.1 All testing procedures were performed in accordance with the performance requirements of the test specifications referenced in paragraph 2.0 of this report.

5.2 **TEST RESULTS**

PARAGRAPH	TEST DESCRIPTION	MEASURED	ALLOWED
5.3.1.1	Operating Force (ASTM E 2068)		
	Breakaway Force	96 N (21.6 lbf)	Reported only
	Operating Force	64 N (14.4 lbf)	90 N (20 lbf)
5.3.1.1.3	Latching Device		
	Open and Close Latch Device	24 N (5.4 lbf)	100 N (22.5 lbf)
5.3.2.1	Air Infiltration (ASTM E 283)		
	75 Pa	1.0 L/s•m²	1.5 L/s•m²
	(1.6 PSF)	0.2 CFM/ft²	0.3 CFM/ft²
	The tested specimen exceeds the performance requirements specified in AAMA/WDMA/CSA 101 / I.S.2 / A440 for air leakage resistance.		
5.3.3.2	Water Penetration (ASTM E 547)		
	140 Pa (2.86 PSF)	No Leakage	No Leakage
	With/without screen		

5.2 TEST RESULTS (Continued)

PARAGRAPH	TEST DESCRIPTION	MEASURED	ALLOWED
5.3.4.2	Uniform Load Deflection (ASTM E 330)		
	720 Pa (15.0 PSF) POS	21.50 mm (0.85")	As measured
	720 Pa (15.0 PSF) NEG	21.50 mm (0.85")	As measured
5.3.4.3	Uniform Load Structural (ASTM E 330)		
	1080 Pa (22.5 PSF) POS	0.00 mm (0.00")	6.75 mm (0.27") Set
	1080 Pa (22.5 PSF) NEG	0.00 mm (0.00")	6.75 mm (0.27") Set
5.3.6.3	Deglazing (ASTM E 987)		
	320 N (70 lbf) Stiles	6%	Less than 90%
	230 N (50 lbf) Rails	4%	Less than 90%

5.3 OPTIONAL PERFORMANCE GRADES
TEST RESULTS

PARAGRAPH	TEST DESCRIPTION	MEASURED	ALLOWED
5.3.3.2	Water Penetration (ASTM E 547)		
	150 Pa (3.00 PSF) With/without screen	No Leakage	No Leakage
5.3.4.2	Uniform Load Deflection (ASTM E 330)		
	960 Pa (20.0 PSF) POS	29.50 mm (1.16")	As measured
	960 Pa (20.0 PSF) NEG	88.50 mm (1.12")	As measured
5.3.4.3	Uniform Load Structural (ASTM E 330)		
	1800 Pa (30.0 PSF) POS	0.50 mm (0.02")	6.75 mm (0.27") Set
	1800 Pa (30.0 PSF) NEG	0.00 mm (0.00")	6.75 mm (0.27") Set

6.0 5.3.5 ASTM F 588 Forced Entry Resistance Test Results For Windows

1.2.1 Type "A" Operable Window Assemblies

Table A1.1 Grade 10

	TEST	RESULTS	ALLOWED
A2.4.1		Passed	No Entry
A2.4.2	A1	Passed	No Entry
A2.4.3	A2	Passed	No Entry
A2.4.4	A3	Passed	No Entry
A2.4.5	A4	Passed	No Entry
A2.4.6	A5	Passed	No Entry
A2.4.8	A7	Passed	No Entry
A2.2.1		Passed	No Entry
A2.3.1		Passed	No Entry
Fixed Panel			
A2.7.1	A2.1	Passed	No Entry
A2.7.3	A2.1	Passed	No Entry

6.0 TEST RESULTS

5.3.5 CAWM 301 - 90 FORCED ENTRY RESISTANCE TEST RESULTS

2.4.1 Type "I" Window

	TEST	RESULTS	ALLOWED
5.1.1	Disassembly	Passed	No Entry
5.1.2	**A**	Passed	No Entry
5.1.3	**B**	Passed	No Entry
5.1.4	**C**	Passed	No Entry
5.1.5	**E**	Passed	No Entry
5.1.6.1	**D**	Passed	No Entry
5.1.7	**E**	Passed	No Entry
Fixed Panel			
5.4.1	A	Passed	No Entry
5.4.2	B	Passed	No Entry

For a complete description of the tested sample refer to the attached twenty-five (25) pages consisting of the bill of materials, cross section drawings, and individual part drawings.

Cross section drawings and die drawings of frame members are on file and have been compared to the sample submitted. Test sample sections, drawings and a copy of this report will be retained at the test laboratory for four years.

This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory.

The preceding test results relate only to the tested specimen and were obtained by using the applicable ASTM, CAWM, and AAMA test methods. This report does not constitute certification of this product. Certification can only be granted by an approved administrator and/or validator.

Testing Completed: August 20, 2010
Report Completed: November 16, 2010

Pete Cruz
Test Engineer

Jim Cruz
Testing Manager

8220 STC Values

STC Rating [1]	OITC Rating	Type	Glazing Required	Comments
29	25	Horizontal Slide	1/8 - 1/8	Standard
31	27	Horizontal Slide	1/8 - 1/4 LAM	Standard
32	28	Horizontal Slide	3/16 - 1/4 LAM	Standard
29	24	Picture Window	1/8 - 1/8	Standard
33	26	Picture Window	1/8 - 3/16	Standard
36	29	Picture Window	3/16 - 1/4 LAM	Standard
28	23	Single Hung	1/8 - 1/8	Standard
30	26	Single Hung	1/8 - 3/16	Special
32	28	Single Hung	3/16 - 1/4 LAM	Special
29	24	Casement	1/8 - 1/8	Standard
32	26	Casement	1/8 - 3/16	Standard
34	28	Casement	3/16 - 1/4LAM	Standard

1. STC determined using ASTM 413

SECTION 08 51 13

ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Aluminum framed windows, with [fixed] [and] [operable] sash.
2. [Shop] [Field] glazing.
3. [Operating hardware] [and] [insect screens].

B. Related Sections:
1. Division 1: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

A. Architectural Manufacturers Association (AAMA):
1. 611-98 - Voluntary Specification for Anodized Architectural Aluminum.
2. 2603-02 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Architectural Extrusions and Panels.

B. American Architectural Manufacturers Association/Window and Doors Manufacturers Association (AAMA/WDMA) - 101/I.S.2-97 - Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

C. ASTM International (ASTM):
1. B221-05 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
2. C1036-01 - Standard Specification for Flat Glass.
3. C1048-04 - Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT, Coated and Uncoated Glass.
4. D3656-04 - Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns.
5. E90-04 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
6. E413-04 - Classification for Sound Rating Insulation.
7. E774-97 - Standard Specification for Sealed Insulating Glass Units.

D. California Association of Window Manufacturers (CAWM) 301-90 - Forced Entry Resistance of Windows.

E. National Fenestration Rating Council (NFRC):
1. 100-2004 - Procedures for Determining Fenestration Product U-Factors.
2. 200-2004 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.

1.3 SYSTEM DESCRIPTION

A. Performance Requirements:
1. Meet AAMA/WDMA - 101/I.S.2.
2. Product type: [HS-R20 - Horizontal Sliding.] [HS-LC25 - Horizontal Sliding.] [H-R20 - Single Hung.] [H-LC25 - Single Hung.] [F-R20 - Fixed.] [F-LC25 - Fixed.] [F-R15 - Fixed with acrylic block.] [C-LC25 - Casement.] [C-C30 - Casement.] [A-R20 - Awning.] [A-C30 - Awning.]
3. Forced entrance resistance: Tested to CAWM 301.
4. U-factor: [__], tested to NFRC 100.
5. Solar heat gain coefficient: [__], tested to NFRC 200.
6. Visible light transmittance: [__], tested to NFRC 200.

7. Sound transmission class: [__], tested to ASTM E90 and classified to ASTM E413.

1.4 SUBMITTALS

A. Submittals for Review:
   1. Shop Drawings: Include window locations, types, elevations, opening dimensions, relationship to adjacent construction, clearances, and attachments.
   2. Product Data: Provide information on window components, sash and frame profiles, glazing, hardware, and accessories.
   3. Samples:
      a. Window corner, minimum [6 x 6] [__ x __] inches, showing sash and frame components, corner construction, glazing, and finish.
      b. [3 x 3] [__ x __] inch finish samples [showing available colors.] [in specified color.]

B. Sustainable Design Submittals:
   1. Regional products: Indicate location of manufacturing facility and distance from facility to project site.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Minimum [__] years [documented] experience in work of this Section.

B. Mockup:
   1. Size: [One full sized window unit.] [____.]
   2. Locate [where directed.] [____.]
   3. Approved mockup may [not] remain as part of the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on Series [6220] [6221] [6260] [6280] [8220] [8280] by International Window Corporation.

B. Substitutions: Under provisions of [Section [____].] [Division 1.]

**** OR ****

C. Substitutions: Not permitted.

2.2 MATERIALS

A. Aluminum Extrusions: ASTM B221, 6063-T5 commercial quality.

B. Glass:
   1. Clear glass: ASTM C1036; [3, 4, or 5 mm thick to suit window size.] [6 mm thick.]
   2. Clear tempered glass: ASTM C1048, Kind FT; [3, 4, or 5 mm thick to suit window size.] [6 mm thick.]
   3. Tinted glass: ASTM C1036; [3, 4, or 5 mm thick to suit window size,] [6 mm thick,] [gray.] [bronze.] [Graylite.] [Azurlite.] [Solex.]
   4. Tinted tempered glass: ASTM C1048, Kind FT; [3, 4, or 5 mm thick to suit window size,] [6 mm thick,] [gray.] [bronze.] [Graylite.] [Azurlite.] [Solex.]
   5. Tinted tempered solar reflective glass: ASTM C1036; [3, 4, or 5 mm thick to suit window size,] [6 mm thick,] [Solarcool Gray] [Solarcool Bronze] by PPG Industries, coating on No. [1] [2] surface.
   6. Tinted tempered solar reflective glass: ASTM C1048, Kind FT; [3, 4, or 5 mm thick to suit window size,] [6 mm thick,] [Solarcool Gray] [Solarcool Bronze] by PPG Industries, coating on No. [1] [2] surface.

7. Sealed insulating glass: ASTM E774, Grade CBA, consisting of an outer lite of [clear] [tinted] [tinted solar reflective] glass and an inner lite of clear glass [, with low-e coating on No. [2] [3] surface].
8. Provide tempered glass where required by Code.

C. Hardware:
1. Material: Aluminum, stainless steel, or plated steel.
2. Horizontal sliding windows: Lift-out type tracks with anti-lift sash blocks, Delrin rollers, and lock with night ventilation feature.
3. Single hung windows: Tilt-in sash hardware, spring loaded block and tackle counterbalances, and cam lock with vent stop lock feature.
4. Awning windows: Concealed hinges, geared scissor type rotary operator, and cam latch.
5. Casement windows: Concealed hinges, Dyad type rotary operator, and cam latch.

2.3 ACCESSORIES

A. Anchors: [Stainless] [Galvanized] [Corrosion resistant coated] steel.

B. Weatherstripping: Silicone treated nylon pile.

C. Insect Screens: Glass fiber, ASTM D3656, 18 x 16 mesh.

D. Divided Lite Grids: Aluminum, internally mounted, [3/4 inch rectangular] [1 inch contoured] profile.

2.4 FABRICATION

A. Fabricate windows to AAMA/WDMA - 101/I.S.2.

B. Fabricate with minimum clearances and shim spaces around perimeter, yet enabling installation and dynamic movement.

C. Separate interior and exterior aluminum components with integral low conductance thermal barrier.

D. Accurately fit and secure joints and intersections. Make joints flush, hairline, and weathertight.

E. Fabricate in largest practical units.

F. Weatherstrip operable sash.

G. Reinforce corners and intersections.

H. Provide internal drainage weep holes and channels to route moisture to exterior.

I. Form glass stops, exterior sills, closures, weatherstops, and flashings of same material as frame.

J. Mount screens in removable, rewireable tubular aluminum frame.

2.5 FINISHES

A. Aluminum: AAMA 611, Architectural [Class III anodized, dark bronze.] [Class II anodized, bronze.] [Class II anodized, clear.]

**** OR ****

B. Aluminum: AAMA 2603, thermosetting modified acrylic enamel coating, [[Desert Sand] [Mojave Beige] [Bronze] [White] color.] [color to be selected from manufacturer's standards.]

C. Screens:
1. Screen mesh: Charcoal.

2. Frame: Color to match windows.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install windows in accordance with manufacturer's instructions and approved Shop Drawings.

B. Close and lock operating sash during installation.

C. Set plumb, level, and rigid, free from warpage.

D. Permanently attach windows to supporting construction.

E. Seal corners and mounting flanges for full length to prevent moisture infiltration.

F. Installation Tolerances:
1. Maximum variation from plumb or level: 1/8 inch in 3 feet or 1/4 inch in any 10 feet, whichever is less.
2. Maximum misalignment of members abutting end to end: 1/16 inch.

3.2 CLEANING

A. Clean interior and exterior glass and aluminum surfaces promptly after installation.

B. Prevent damage to glass and finishes.

C. Do not use petroleum distillates for cleaning.

3.3 ADJUSTING

A. Adjust windows for smooth operation.

B. Touch up minor scratches and abrasions to match original finish.

END OF SECTION

International Window 8220 3/4" Insulating Glass Unit Performance

Horizontal Sliding w/ Intercept spacer

	U-Value Residential Only						SHGC			Visible Light		
	Air fill	With Argon	Sculpt Grid	Sculptured Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculpt Grid	1/8" x 3/4" Grid		Sculpt Grid	1/8" x 3/4" Grid
SS Clr / SS Clr	0.56	0.54	0.56	0.54	0.56	0.54	0.67	0.54	0.60	0.70	0.56	0.63
DS Clr / DS Clr	0.56	0.54	0.56	0.54	0.56	0.54	0.65	0.52	0.58	0.69	0.55	0.62
3/16 Clr / 3/16 Clr	0.57	0.55	0.60	0.57	0.60	0.57	0.62	0.50	0.56	0.68	0.54	0.61
SS EnergyShield™/ SS clear	0.41	0.37	0.42	0.38	0.41	0.37	0.34	0.28	0.31	0.62	0.49	0.56
DS EnergyShield™/ DS clear	0.41	0.37	0.42	0.38	0.41	0.37	0.34	0.28	0.31	0.61	0.49	0.55
3/16 EnergyShield™/ 3/16 clear	0.44	0.39	0.49	0.44	0.49	0.44	0.34	0.28	0.31	0.60	0.48	0.54
SS EnergyShield Xtreme™/ SS clear	0.40	0.37	0.42	0.38	0.40	0.37	0.24	0.20	0.22	0.55	0.44	0.49
DS EnergyShield Xtreme™/ DS clear	0.40	0.37	0.42	0.38	0.40	0.37	0.24	0.20	0.22	0.54	0.43	0.49
3/16 EnergyShield Xtreme™/ 3/16 clear	0.43	0.38	0.48	0.43	0.48	0.43	0.25	0.20	0.23	0.54	0.43	0.48
DS bronze/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.53	0.43	0.48	0.51	0.41	0.46
3/16 bronze/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.48	0.39	0.43	0.44	0.35	0.40
DS SCbronze/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.32	0.26	0.29	0.20	0.16	0.18
3/16 SCbronze/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.29	0.24	0.26	0.17	0.14	0.16
DS grey/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.50	0.40	0.45	0.46	0.37	0.41
3/16 grey/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.43	0.35	0.39	0.38	0.31	0.34
DS Azuria/ DS clear	0.56	0.54	0.56	0.54	0.56	0.54	0.42	0.34	0.38	0.59	0.47	0.53
3/16 Azuria/ 3/16 clear	0.57	0.55	0.60	0.57	0.60	0.57	0.37	0.30	0.33	0.55	0.44	0.49
DS bronze/ DS EnergyShield™	0.41	0.37	0.42	0.38	0.41	0.37	0.32	0.26	0.29	0.46	0.36	0.41
3/16 bronze/ 3/16 EnergyShield™	0.44	0.39	0.49	0.44	0.49	0.44	0.30	0.24	0.27	0.40	0.32	0.35
DS grey/ DS EnergyShield™	0.41	0.37	0.42	0.38	0.41	0.37	0.30	0.25	0.28	0.41	0.33	0.37
3/16 grey/ 3/16 EnergyShield™	0.44	0.39	0.49	0.44	0.49	0.44	0.27	0.23	0.25	0.34	0.27	0.31
DS Azuria/ DS EnergyShield™	0.41	0.37	0.42	0.38	0.41	0.37	0.31	0.26	0.28	0.53	0.42	0.47
3/16 Azuria/ 3/16 EnergyShield™	0.44	0.39	0.49	0.44	0.49	0.44	0.29	0.24	0.27	0.49	0.39	0.44
DS Solexia/ DS EnergyShield™	0.41	0.37	0.42	0.38	0.41	0.37	0.35	0.29	0.32	0.57	0.45	0.51
3/16 Solexia/ 3/16 EnergyShield™	0.44	0.39	0.49	0.44	0.49	0.44	0.33	0.27	0.30	0.54	0.43	0.48

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.* ft2*°F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.

Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost

EnergyShield™ spectrally selective Low-E with emissivity 0.035

EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.018

International Window 8220 3/4" Insulating Glass Unit Performance												
Horizontal Sliding w/ Xtreme spacer	**U-Value Residential Only**						**SHGC**			**Visible Light**		
	Air fill	With Argon	Sculpt Grid	Sculptured Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon		Sculpt Grid	1/8" x 3/4" Grid		Sculpt Grid	1/8" x 3/4" Grid
SS Clr / SS Clr	0.55	0.53	0.55	0.53	0.55	0.53	0.67	0.54	0.60	0.70	0.56	0.63
DS Clr / DS Clr	0.55	0.53	0.55	0.53	0.55	0.53	0.65	0.52	0.58	0.69	0.55	0.62
3/16 Clr / 3/16 Clr	0.57	0.54	0.59	0.57	0.57	0.54	0.62	0.50	0.56	0.68	0.54	0.61
SS EnergyShield™/ SS clear	0.40	0.36	0.41	0.37	0.40	0.36	0.34	0.28	0.31	0.62	0.49	0.56
DS EnergyShield™/ DS clear	0.40	0.36	0.41	0.37	0.40	0.36	0.34	0.28	0.31	0.61	0.49	0.55
3/16 EnergyShield™/ 3/16 clear	0.43	0.38	0.48	0.42	0.43	0.38	0.34	0.28	0.31	0.60	0.48	0.54
SS EnergyShield Xtreme™/ SS clear	0.39	0.35	0.41	0.37	0.39	0.35	0.24	0.20	0.22	0.55	0.44	0.49
DS EnergyShield Xtreme™/ DS clear	0.39	0.35	0.41	0.37	0.39	0.35	0.24	0.20	0.22	0.54	0.43	0.49
3/16 EnergyShield Xtreme™/ 3/16 clear	0.42	0.37	0.47	0.42	0.42	0.37	0.25	0.20	0.23	0.54	0.43	0.48
DS bronze/ DS clear	0.55	0.53	0.55	0.53	0.55	0.53	0.53	0.43	0.48	0.51	0.41	0.46
3/16 bronze/ 3/16 clear	0.57	0.54	0.59	0.57	0.57	0.54	0.48	0.39	0.43	0.44	0.35	0.40
DS SCbronze/ DS clear	0.55	0.53	0.55	0.53	0.55	0.53	0.32	0.26	0.29	0.20	0.16	0.18
3/16 SCbronze/ 3/16 clear	0.57	0.54	0.59	0.57	0.57	0.54	0.29	0.24	0.26	0.17	0.14	0.16
DS grey/ DS clear	0.55	0.53	0.55	0.53	0.55	0.53	0.50	0.40	0.45	0.46	0.37	0.41
3/16 grey/ 3/16 clear	0.57	0.54	0.59	0.57	0.57	0.54	0.43	0.35	0.39	0.38	0.31	0.34
DS Azuria/ DS clear	0.55	0.53	0.55	0.53	0.55	0.53	0.42	0.34	0.38	0.59	0.47	0.53
3/16 Azuria/ 3/16 clear	0.57	0.54	0.59	0.57	0.57	0.54	0.37	0.30	0.33	0.55	0.44	0.49
DS bronze/ DS EnergyShield™	0.40	0.36	0.41	0.37	0.40	0.36	0.32	0.26	0.29	0.46	0.36	0.41
3/16 bronze/ 3/16 EnergyShield™	0.43	0.38	0.48	0.42	0.43	0.38	0.30	0.24	0.27	0.40	0.32	0.35
DS grey/ DS EnergyShield™	0.40	0.36	0.41	0.37	0.40	0.36	0.30	0.25	0.28	0.41	0.33	0.37
3/16 grey/ 3/16 EnergyShield™	0.43	0.38	0.48	0.42	0.43	0.38	0.27	0.23	0.25	0.34	0.27	0.31
DS Azuria/ DS EnergyShield™	0.40	0.36	0.41	0.37	0.40	0.36	0.31	0.26	0.28	0.53	0.42	0.47
3/16 Azuria/ 3/16 EnergyShield™	0.43	0.38	0.48	0.42	0.43	0.38	0.29	0.24	0.27	0.49	0.39	0.44
DS Solexia/ DS EnergyShield™	0.40	0.36	0.41	0.37	0.40	0.36	0.35	0.29	0.32	0.57	0.45	0.51
3/16 Solexia/ 3/16 EnergyShield™	0.43	0.38	0.48	0.42	0.43	0.38	0.33	0.27	0.30	0.54	0.43	0.48
SS EnergyShield™/ SS SG500	---	0.32	---	0.33	---	0.32	0.23	0.19	0.21	0.51	0.41	0.46
DS EnergyShield™/ DS SG500	---	0.31	---	0.33	---	0.31	0.23	0.19	0.21	0.51	0.40	0.45
3/16 EnergyShield™/ 3/16 SG500	---	0.33	---	0.36	---	0.33	0.23	0.19	0.21	0.50	0.40	0.45

U-Value is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.* ft2F. Lower U-Values indicate better performance. Winter nighttime U-Values are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.**

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Clear glass - includes all non-tinted pattern glass, i.e. Obscure, Rain, Delta Frost
EnergyShield™ spectrally selective Low-E with emissivity 0.035
EnergyShield Xtreme™ spectrally selective Low-E with emissivity 0.018

To: Brad Carr and Steve Venker

City of Scottsdale

From: Barbara Ricketts, CR

Oswego Design

Regarding permit 427-PA-2016

Warren residence

7615 E Meadowbrook Ave.

Scottsdale, AZ 85251

Villa Monterey

Dear Brad and Steve,

I distributed a letter detailing the entirety of the repairs and improvements that are underway at the above address. I also asked if there were any comments, or issues that the neighbors had to the work, for them to please contact me at my phone and email.

I distributed the letters to 20 residents- 5 on either side of my clients' house and 10 across the street, on July 15th, 2016.

I received only one response; a neighbor called me and asked if anything was required of him and I said no. He did not have any questions, comments or complaints about the work and in fact, said he would contact us when he is ready to renovate his home.

Barbara Ricketts, CR

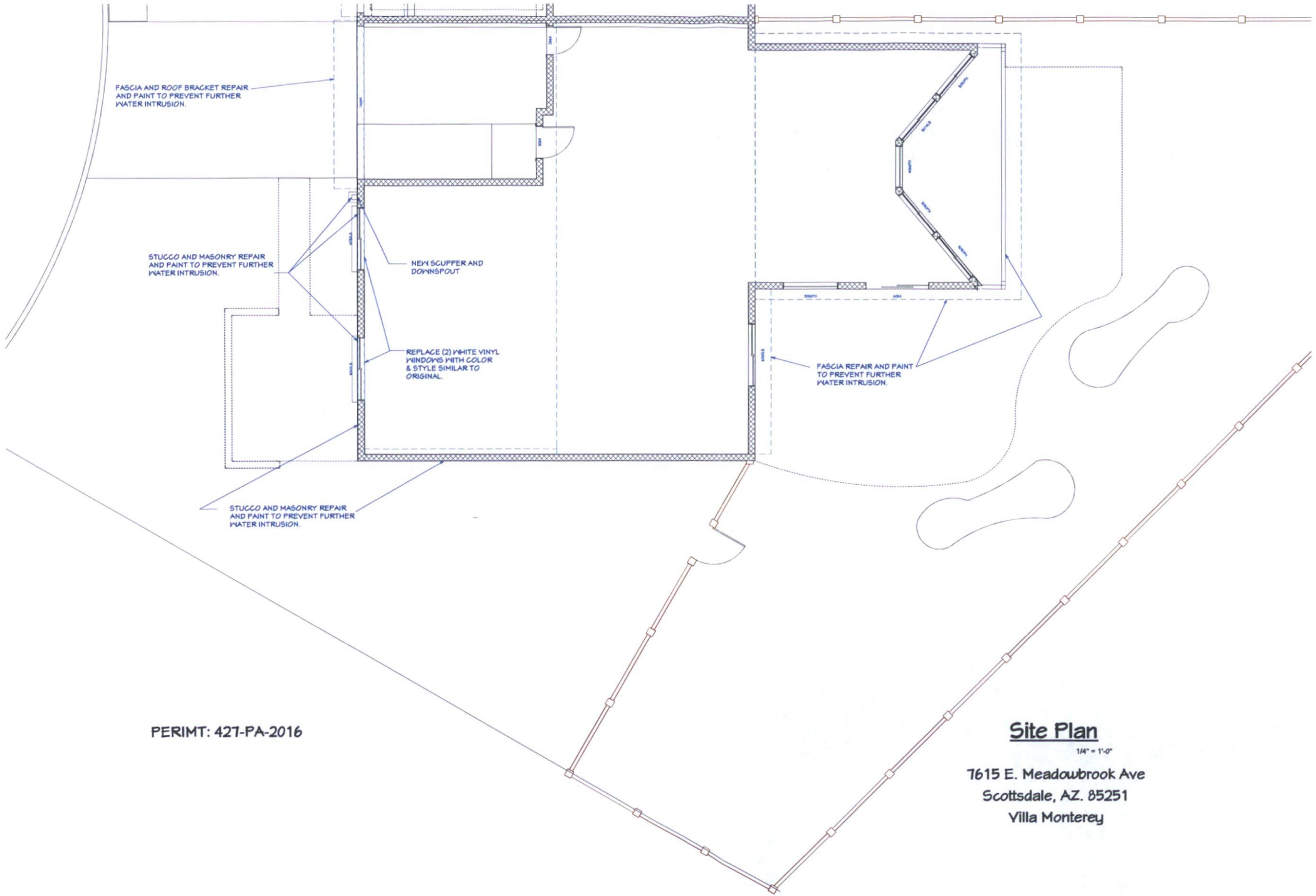
Oswego Design

POB 151744

Austin, TX 78735

503-675-0771

barb@oswegodesign.com



PERIMT: 427-PA-2016

Site Plan

1/4" = 1'-0"

7615 E. Meadowbrook Ave
Scottsdale, AZ. 85251
Villa Monterey

Debra & Kirk Warren
7615 E Meadowbrook Ave
Scottsdale, AZ 85251

MK	REVISIONS DATE
1	
2	

SITE PLAN

Job #	45-010
Date	April 2015

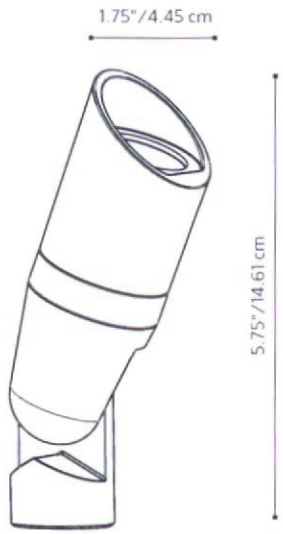
A 1

FXLuminaire

The QZ is the smallest up light offered in the FX LED line. With only a 1LED option it's capable of all the same features and optics of the larger LED up lights like the NP and FB, but in a smaller package. The QZ is also capable of zoning and dimming on a Luxor ZD System with the added ZD option.

QZ: Up Light

NUMBER OF LEDS:	1
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watts
USEFUL LED LIFE (L70):	50,000 hrs avg
INPUT VOLTAGE:	10 to 15V
VA TOTAL: (Use to size the lighting controller)	2.4
WATTS USED:	2.0
LUMENS PER WATT (EFFICACY)	34.9
MAX LUMENS:	62
CRI (Ra)	79.8



11-HP-2016
6/28/2016

Learn more about FX Luminaire up lights. Visit: fxl.com

760.744.5240

QZ: Up Light

FACTORY INSTALLED OPTIONS: Order 1 + 2 (optional) + 3 + 4

Step	Description	Code
1	FIXTURE	QZ
2	OPTIONAL ZD	ZD *(Refer to the Luxor page in the Lighting Control section)*
3	LAMP	1LED *(50,000 avg. life hours)*
4	FINISH	WG, FW, AL, BZ, DG, WI, VF, SB, FB

EXAMPLE: QZ-ZD-1LED-WI = QZ - ZD Option - 1LED Board - Weathered Iron Finish

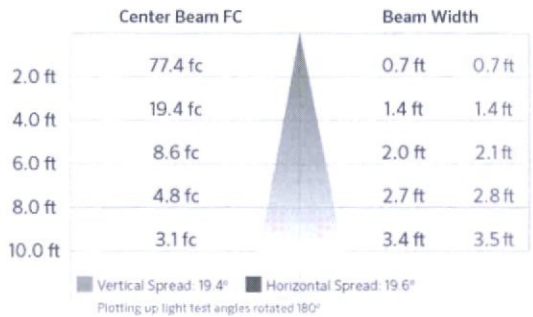
FIELD INSTALLED OPTIONS: Order Individually

Mounts	Beam Angle Lenses	
Long Slot Spike (Included) *(250015840000) 2.5" x 10"*	LENS OPTIONS	1LED
Super Slot Spike *(753900) 2" x 10"*	**Diffuser** 18° *(preassembled/most fixtures)*	770600
SuperJ-Box *(SJ-XX**) 2.5" x 12"*	**Flood Lens** 30-32° *(1 notch)*	1LEDFLLENS
Post Mount *(PM-XX**) 2.5" x 13"*	**Wide Flood Lens** 56-58° *(2 notches)*	1LEDWFLLENS

EXAMPLE: 753900 = Super Slot Spike

PHOTOMETRICS:

QZ 1LED ILLUMINANCE AT A DISTANCE



Beam angle is calculated using LM-79 method for SSL Luminaires:
"Beam angle is defined as two times the vertical angle at which the intensity is 50% of the maximum."

POWDER COAT

- **WG** = White Gloss
- **FW** = Flat White
- **AL** = Almond
- **BZ** = Bronze Metallic
- **DG** = Desert Granite
- **WI** = Weathered Iron
- **VF** = Verde Speckle
- **SB** = Sedona Brown
- **FB** = Flat Black

The QZ includes a 1 LED board, your choice of finish, 4 ft lead wire and a Super Slot Spike.

All QZ up lights come standard with amber, green, blue and frosted filters

*** Denotes finish code*

c UL us LISTED 3YJ8

Body

Trim (Fascia Boards only)

Concrete color

Debra & Kirk Warren
7615 E Meadowbrook Ave
Scottsdale, AZ 85251

MK	REVISIONS DATE
1	
2	

Perspective Views

Job #	45-010
Date	April 2015

A2

11-HP-2016
6/28/2016