## RENAISSANCE CONSERVATORIES Lanterns, Skylights, Glass Roofs and Domes

Specifier's Guide













ight, God's eldest daughter, is a principal beauty in a building. — Thomas Fuller

For as long as mankind has lived under roof, introducing natural light to the core of a dwelling has posed special challenges to both architect and builder. Even in today's highly technological 21st Century, sloped glazing is often viewed as a daunting task:

### "HOW DO I DETAIL IT?" "HOW DO I SPECIFY IT?" "HOW DO I INSTALL IT?"

Renaissance is a recognized leader in the design, manufacture, installation and service of premium mahogany-and-glass conservatories for America's finest homes. Our extensive experience has enabled us to accumulate the technical knowledge and expertise, essential for overhead and specialty glazing success. With this Specifier's Guide, we are happy to share with you a few key guidelines illustrating how we methodically approach our craft.

As a custom job house, we are also keenly aware that most projects have their own special and often unique requirements. Therefore, this *Guide* serves as the first step of a collaborative discovery process to identify your clients' needs and expectations.

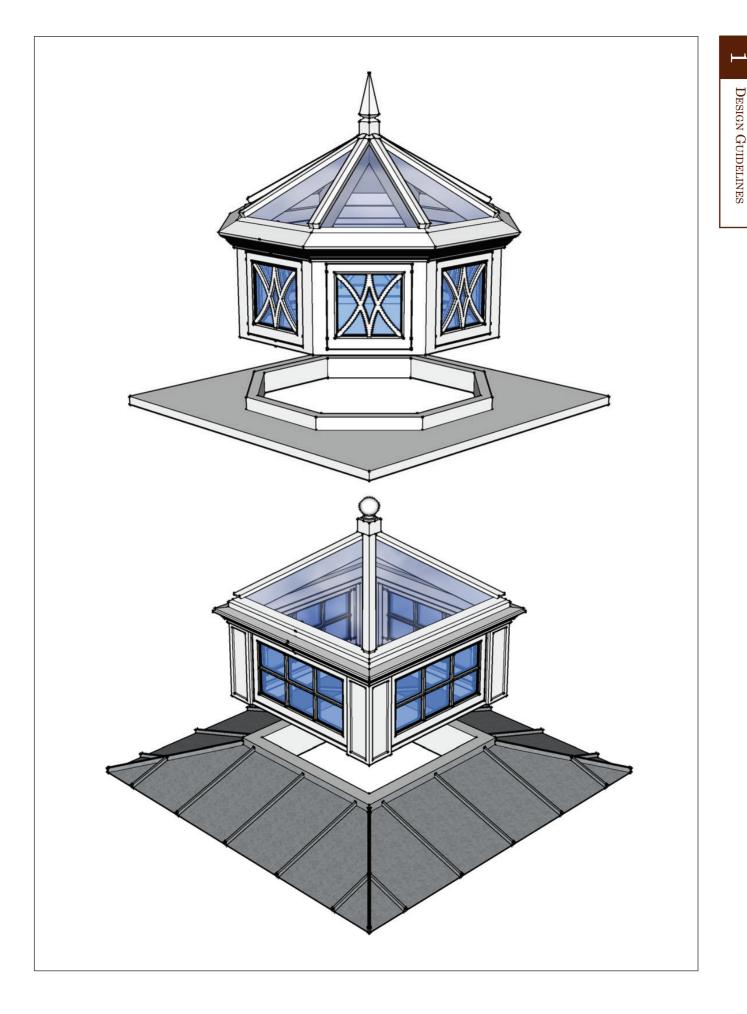
We invite you to call on us anytime for personalized one-on-one assistance. Telephone consultations are always without charge, and are the best way for us to get acquainted with your project, and for you to learn about Renaissance and how we can participate.

On behalf of the entire Renaissance Design Team, I look forward to hearing from you, and to the opportunity to add Light to your clients' Lifestyle.

Jason Sawyer

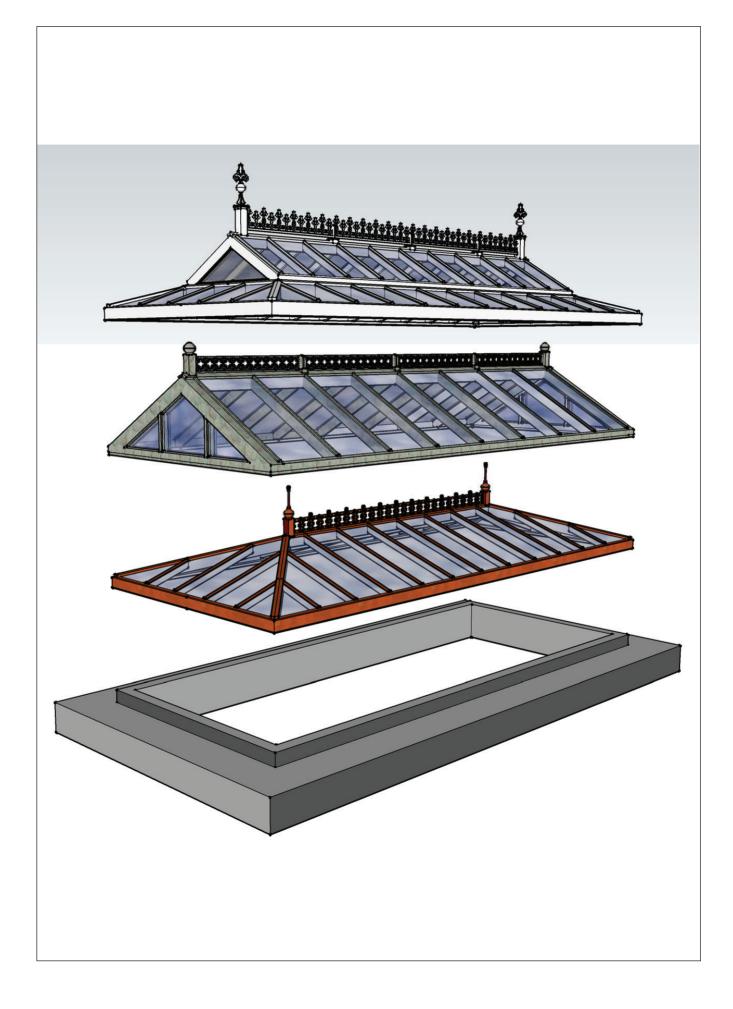
Jason Sawyer President, Renaissance Conservatories

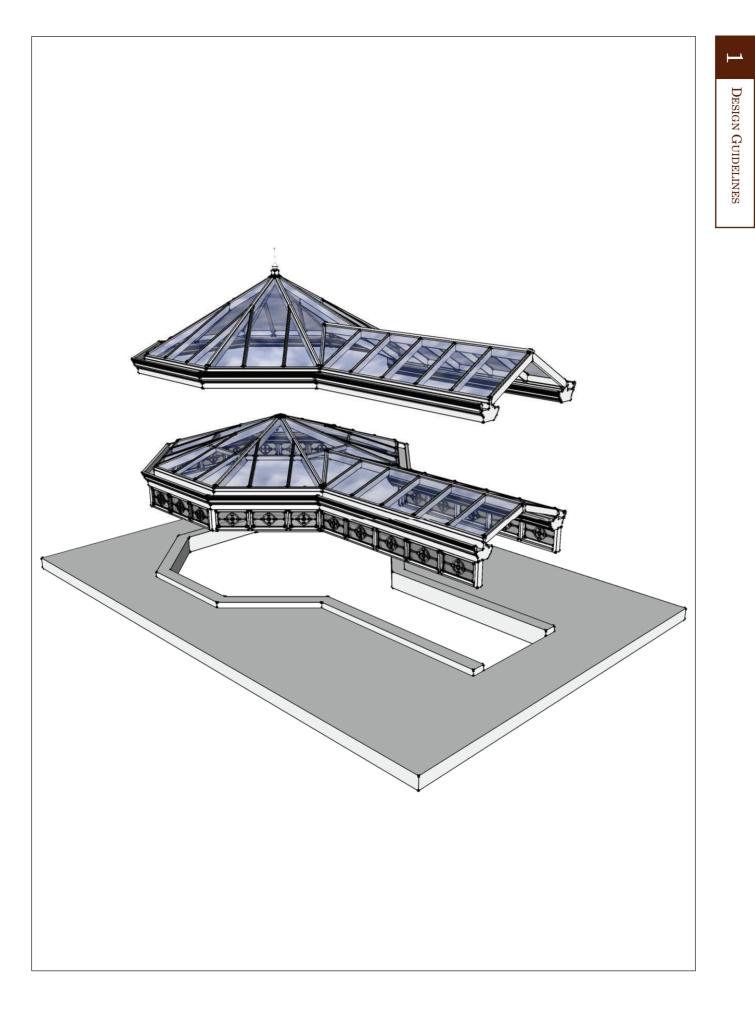
Begin here to learn about various geometrical	н
shapes, and how they can be combined and integrated to fit your needs.	DESIGN GUIDELINES
Learn about some of the materials that	ຽ
go into our products.	Selections
Use our Standard General Specifications,	ယ
or tell us exactly what you want.	Specifications
We have illustrated a few of our most often used details. We will create the exact detail you need.	4 Details
We believe ours is one of the strongest	ப
in the industry.	WARRANTY





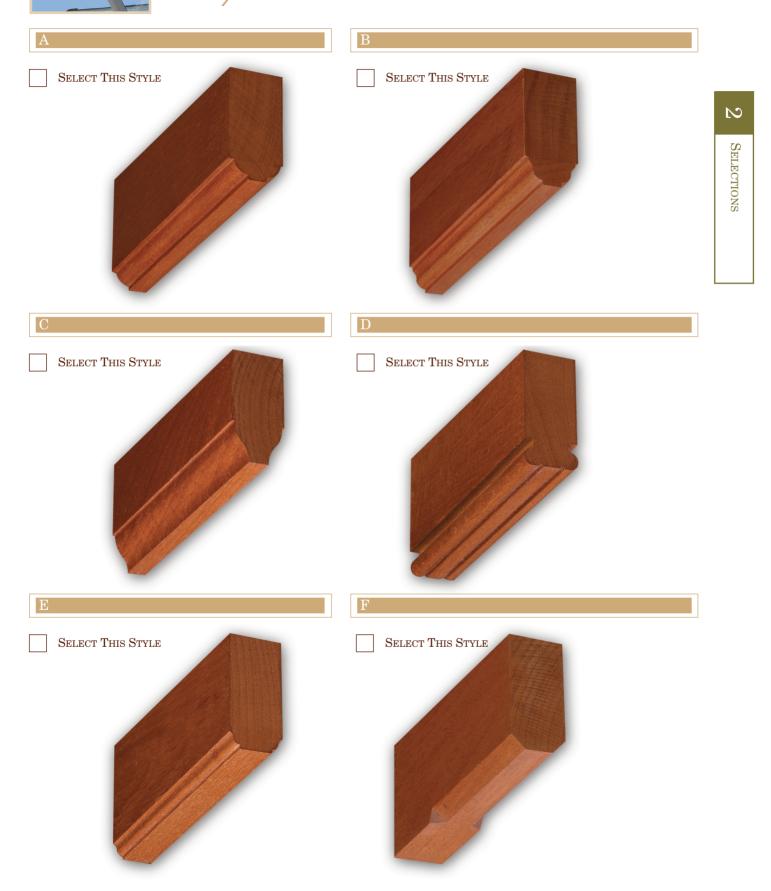


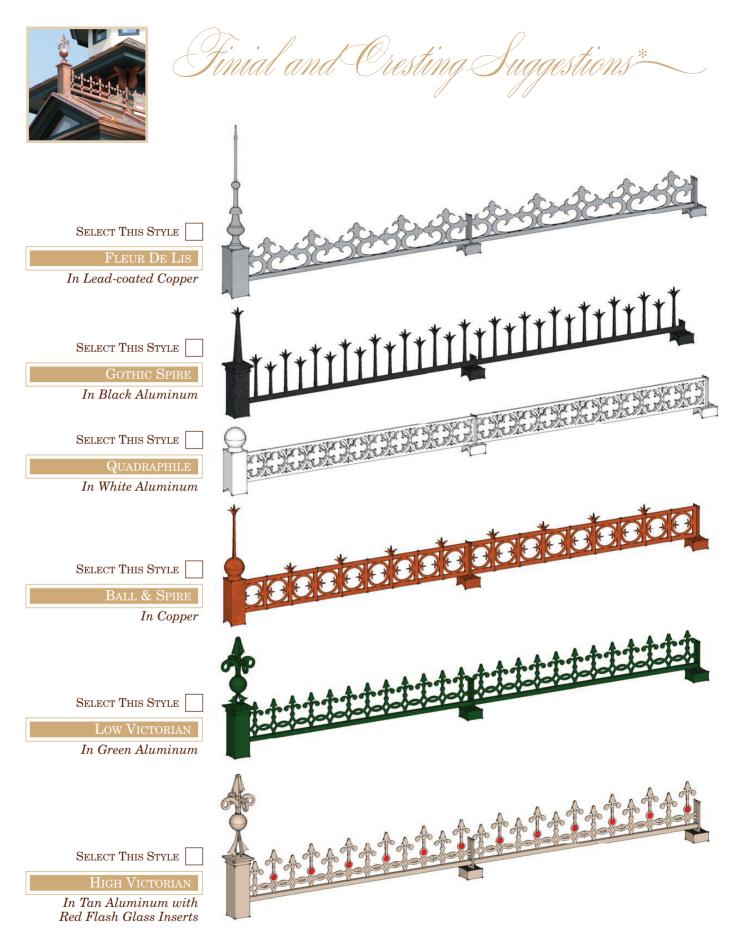












st Call us for a design to meet your special needs.

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#### **Renaissance Conservatories Standard General Specifications** Lanterns, Skylights, Glass Roofs & Domes 11/20/2009

- 1. Drawings: The Manufacturer to submit shop drawings for approval prior to the start of fabrication.
- 2. Manufacturer: Drawings and contract documents to be based on products manufactured or supplied by Renaissance Conservatories, 132 Ashmore Drive, Leola, Pennsylvania 17540, toll-free phone 800-882-4657, phone 717-661-7520, fax 717-661-7727, web site www.RenaissanceConservatories.com
- 3. Framing Species: Exposed framing to be kiln-dried [select one] [Honduran Mahogany (Swietenia macrophylla), Cedro Mahogany (Cedrela odorata), Western Red Cedar (Thuja plicata), or as otherwise specified]. Some concealed blocking, concealed structural framing, or concealed structural elements may be SPF (spruce, pine, fir), engineered lumber or steel.
- 4. Sash: All operating and fixed sash to be direct-set into framing openings (without jambs), and to be custom-sized as specified.

Sash to be hand selected kiln-dried 1-3/4" x 1-5/8" with a 2-3/16" bottom rail laminated solid lumber to match framing species. Joinery to be mortise and tenon glued and pinned.

All laminated sash members will be made from (minimum) double 5/4 (nominal) timbers, finish milled to final dimensions. Wood will be pressure laminated for a minimum of eight (8) hours, at a minimum of 70 degrees Fahrenheit, and at a minimum of 50 pounds per square inch (50 psi), utilizing West System 105-B Resin and 206-B Slow Hardener, applied in accordance with the manufacturer's recommended procedures.

Manual Awning Sash: Hardware to have a [select one] [03-Bronze, 23-Chestnut Bronze, 24-Beige, 32-White, 37-Off White] baked enamel painted finish and to include surface-mounted single arm roto gear operator and concealed hinges as manufactured by Truth Hardware.

Motorized Awning Sash: Motor drives to be Marvel Power Window System as manufactured by Truth Hardware with [select one] [03-Bronze, 38-White] finish.

Insect screens to have rigid pre-finished aluminum frames with [select one] [bronze, white, beige] baked enamel painted finish, or custom color powder coat finish as specified.

Insect screen cloth to be [select one] [charcoal aluminum, charcoal vinyl-coated fiberglass, bronze, Gore inLighten Virtually Invisible] as specified.

6. Operating Roof Vents: Roof vents to be hand selected kiln-dried 1-3/4" (or as otherwise specified) laminated solid lumber to match framing species. Vents to be exterior clad in [select one] [copper, lead coated copper, aluminum, Rheinzink, or tern-plated stainless steel] in a finish as specified. Vents to be completely removable from base and to be [select one] [manually operated, motorized] on a continuous ball hinge with removable insect screens.

Motorized Roof Vents: Motor drives for vents weighing up to 90 pounds to be Marvel Power Window System as manufactured by Truth Hardware with [select one] [03-Bronze, 38-White] finish. Motor drives for vents weighing in excess of 90 pounds to be Sentry II HS Motor System as manufactured

by Truth Hardware with [select one] [03-Bronze, 23-Chestnut Bronze, 24-Beige, 32-White] finish.

Insect screens to have rigid pre-finished aluminum frames with [select one] [bronze, white, beige] baked enamel painted finish, or custom color powder coat finish as specified.

Insect screen cloth to be [select one] [charcoal aluminum, charcoal vinyl-coated fiberglass, bronze, Gore inLighten Virtually Invisible] as specified.

7. Glass: All insulating glass to be [select one] [double, triple] insulating dual seal with a butyl primary seal and a neutral-cure silicone secondary seal. Vertical glass to be clear insulating glass, annealed or tempered as specified. Roof glass to be clear insulating glass, tempered outboard lite, heat-strengthened laminated inboard lite, or as otherwise specified. Custom tints, high performance coatings, inert gas fills and captured air spacers as specified.

If required, [select one] [sloped, vertical, sloped and vertical] glazing to be [select one] [storm impact rated, hurricane certified].

- 8. Fasteners: The Manufacturer to provide all fasteners necessary for unit assembly and glazing. Exposed fasteners to be brass or stainless steel.
- 9. Cresting & Finial Posts: [Select one] [Copper, lead-coated copper, aluminum, composite, wood] from standard offerings or custom as specified.
- 10. Appliques, Trims & Architectural Detailing: From standard offerings or custom as specified.
- 11. Art Glass: Custom as specified.
- 12. Structural Components: Structural steel to be concealed and prime painted or finished as otherwise specified.

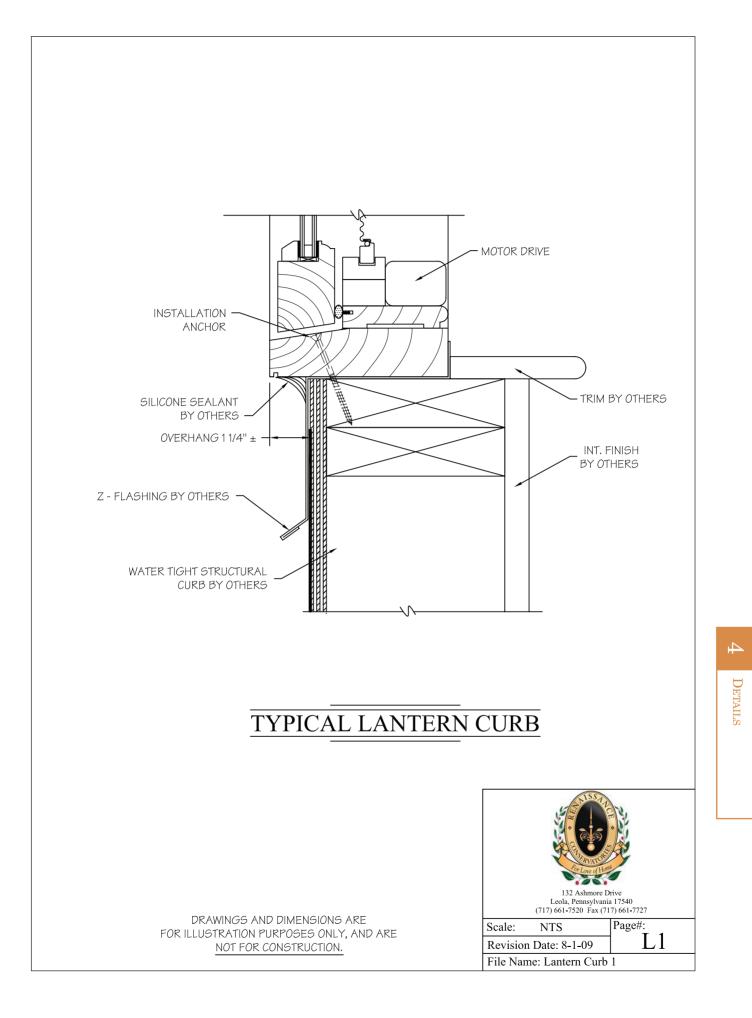
Tension rod collar ties to be prime painted or finished as otherwise specified. Decorative rosettes to be [select one] [leaded etched flash glass, copper, aluminum, composite, wood] from standard offerings or as otherwise specified.

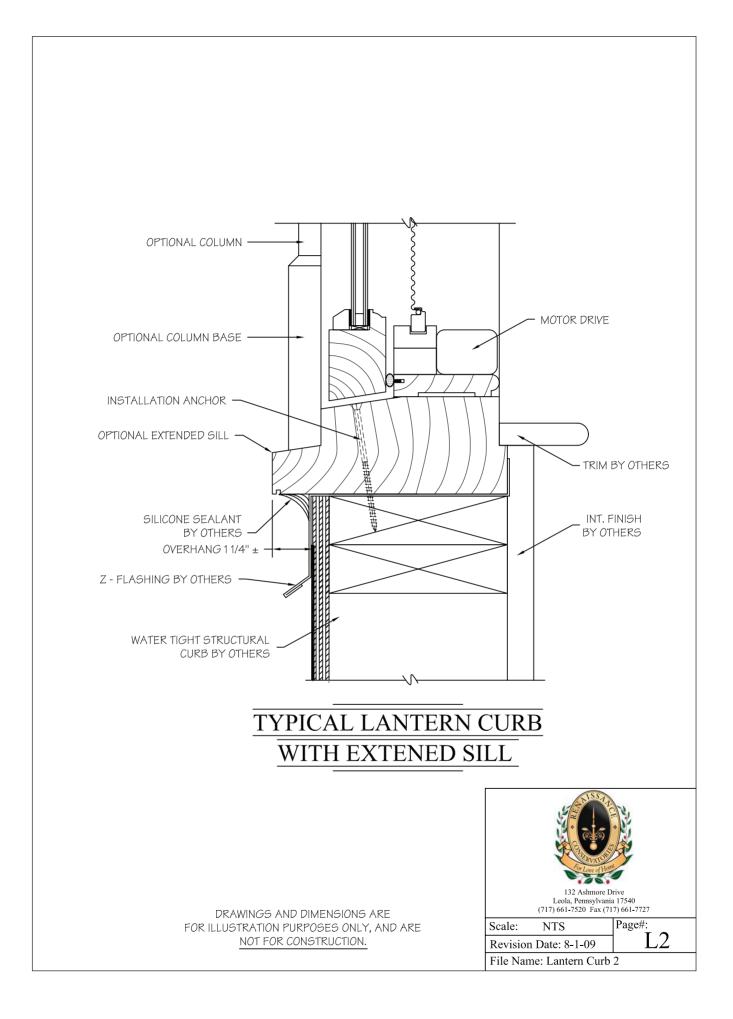
- 13. Roof Caps: Caps to be manufacturer's proprietary 2-part extruded aluminum with snap-in neoprene gaskets in a finish as specified or manufacturer's [select one] [copper-wrapped, lead coated copper-wrapped, aluminum-wrapped, Rheinzink-wrapped, tern-plated stainless steel] wood caps in a finish as specified.
- 14. Eaves Detailing: When specified, the exterior eaves to have an integrated rain gutter in [select one] [copper, lead-coated copper, aluminum, lined wood] in a finish as specified.
- 15. Flashing and Brake Metals: Supplied flashing and Brake Metals to be [select one] [bronze, white, custom color] baked enamel painted or powder coated aluminum, or [select one] [copper, lead-coated copper, Rheinzink, tern-plated stainless steel].
- 16. Glazing Tapes: Supplied glazing tapes to be black preformed cellular type, consisting of a flexible closed cell polyolefin foam substrate with a high performance pressure sensitive acrylic adhesive system on both sides.
- 17. Sealants: Supplied sealants to be one-part low modulus neutral cure silicone.
- Finish: All [select one] [interior, exterior, interior and exterior] wood surfaces to be factory-primed with one (1) coat of [select one] [clear wood sealer, Ultra-Hide Aquacrylic Gripper Stain Killer Primer Sealer]. All surfaces to be backside primed prior to component assembly.

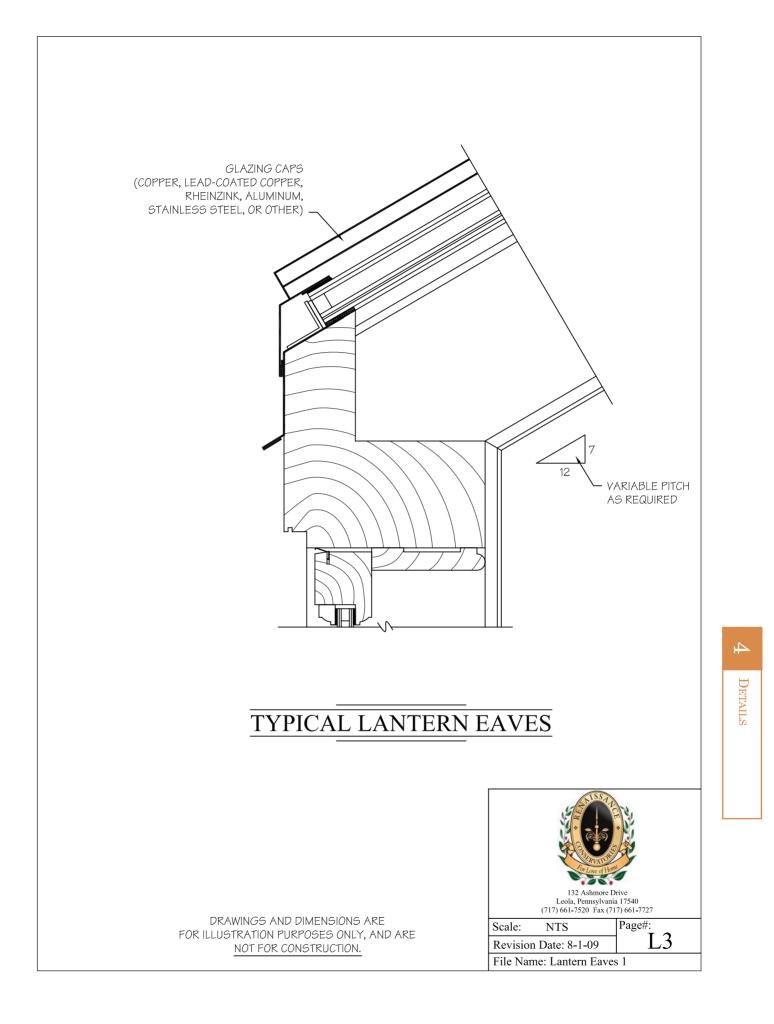
All [select one] [interior, exterior, interior and exterior] wood surfaces to receive [select one] [one, two] factory-applied coats of latex finish paint in a color as specified.

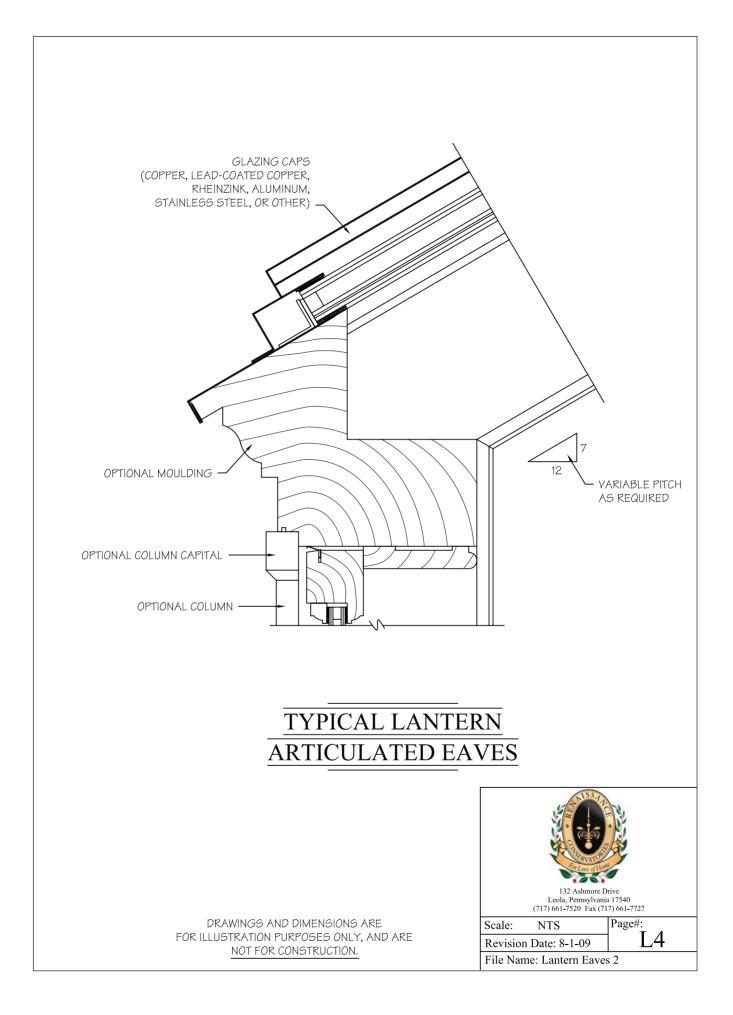
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	XIR Laminated 72-41 (Gray)	XIR Laminated 72-41 (Bronze)	XIR Laminated 72-41 (Low "E")	XIR Laminated 72-41	SolarGrav Tint	Clear Laminated (non coated)	Clear (non coated)		SolarGray Tint (outboard)	SolarBronze Tint (outboard)	ClimaGuard 55/27 Low-E (#3)	ClimaGuard 71/38 Low-E (#3)	Solarban 60 Low-E (#3)	Sungate 500 Low-E (#3)	Clear (non coated)		Solarcool Gray (#2) + Low-E (#3)	Solarcool Gray (#2) + Low-E (#3)	Solarcool Grav (#2)	Solarcool Bronze (#2) + Low-E (#3)	Solarcool Bronze (#2) + I ow-F (#3)	Solarcool Bronze (#2)	B-G Eclipse Adv. (#2) + Low-E (#3)	B-G Eclipse Adv. (#2) + Low-E (#3)	Blue-Green Eclipse Adv. (#2)	SunGuard SuperNeutral 54 (#2) + Sundate 500 (#3)	SunGuard SuperNeutral 54 (#2) + SN 68 (#3)	SunGuard SuperNeutral 54 Low-E (#2)	SunGuard SuperNeutral 68 Low-E (#2 & #3)	SunGuard SuperNeutral 68 Low-E (#2)	Sungate 500 Low-E (#2 & #3)	Sungate 500 Low-E (#2)	Clear (non coated)	ROOF GLASS		Product Trade Name (Coated Surface No.)				
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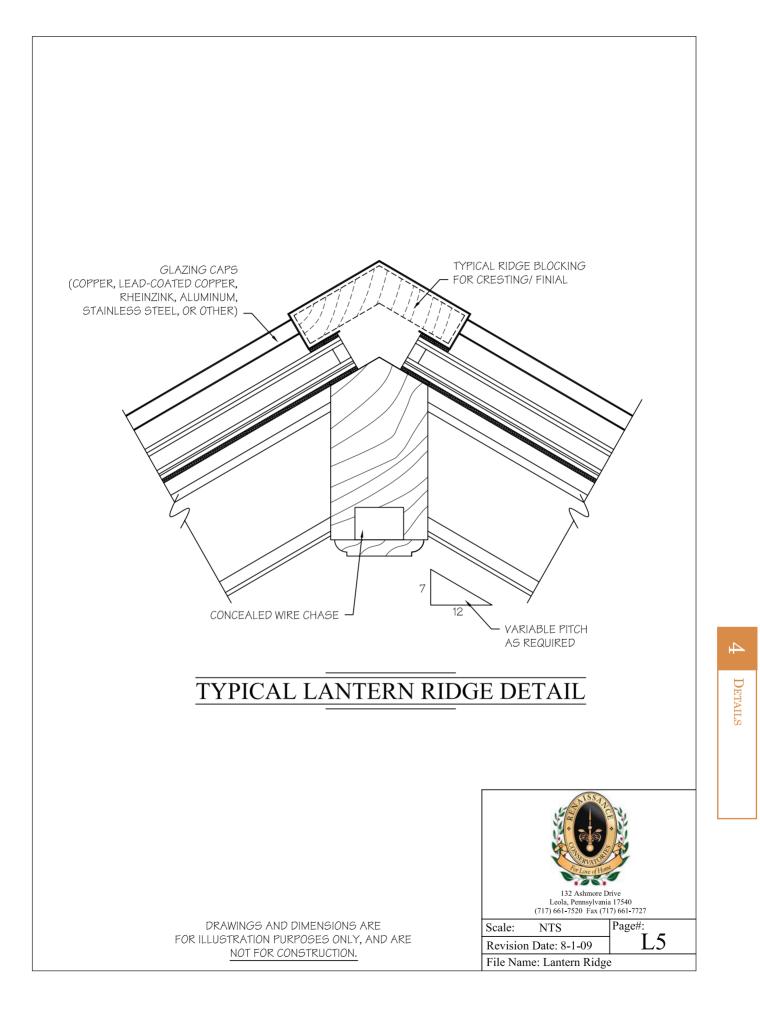
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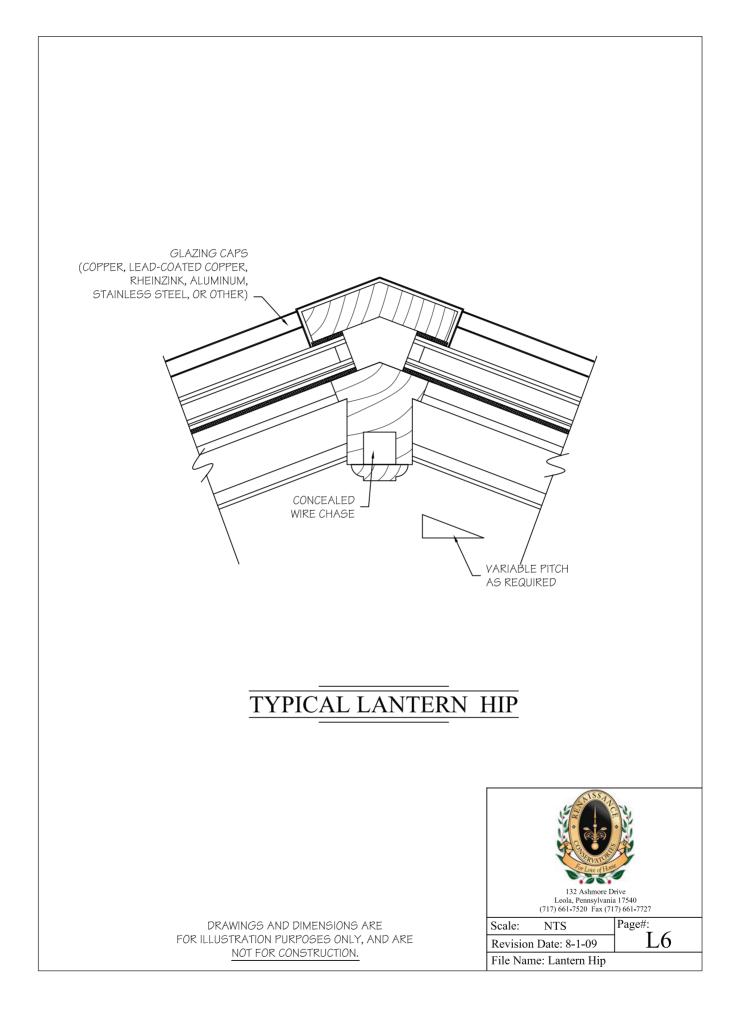


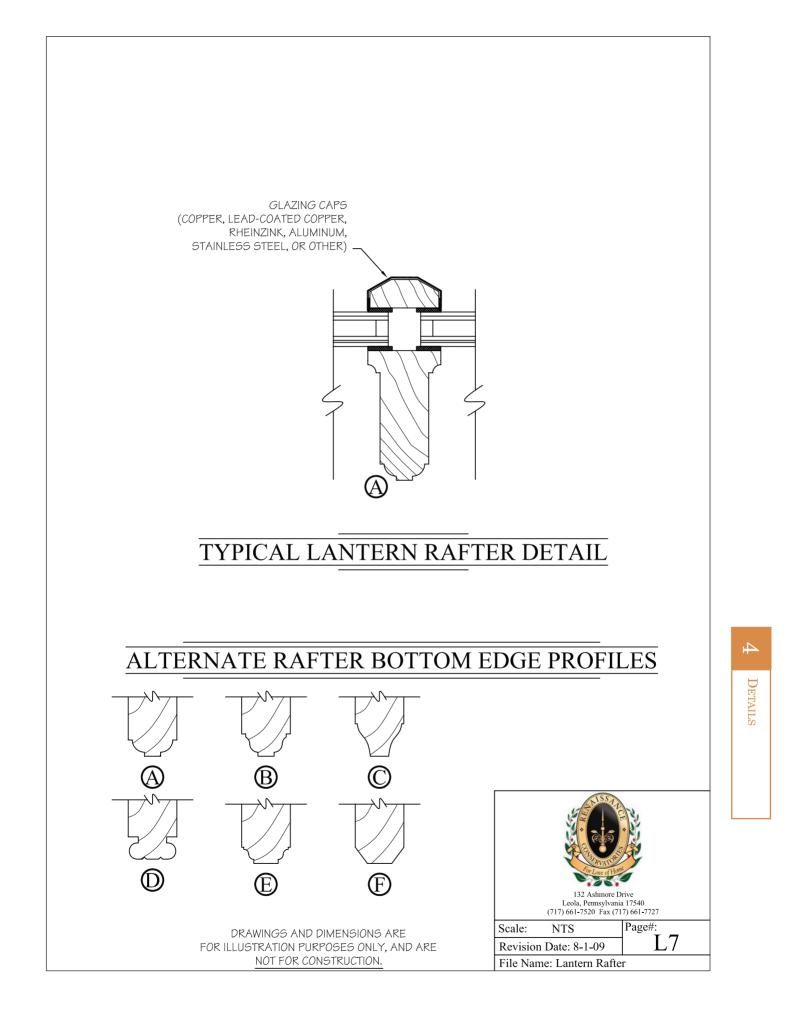


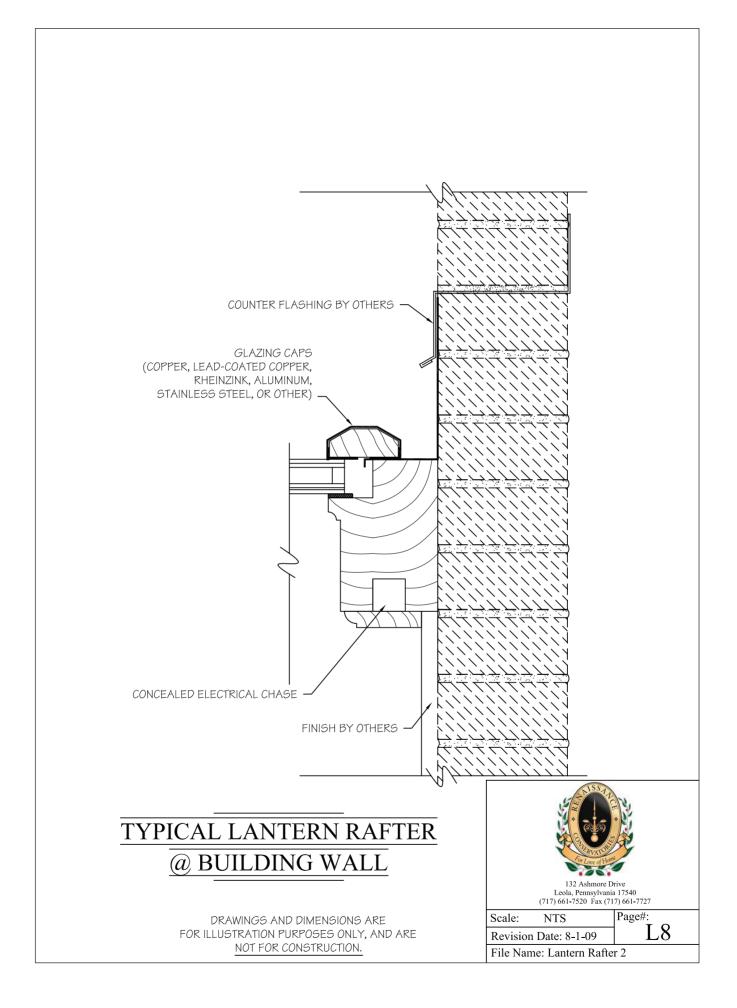


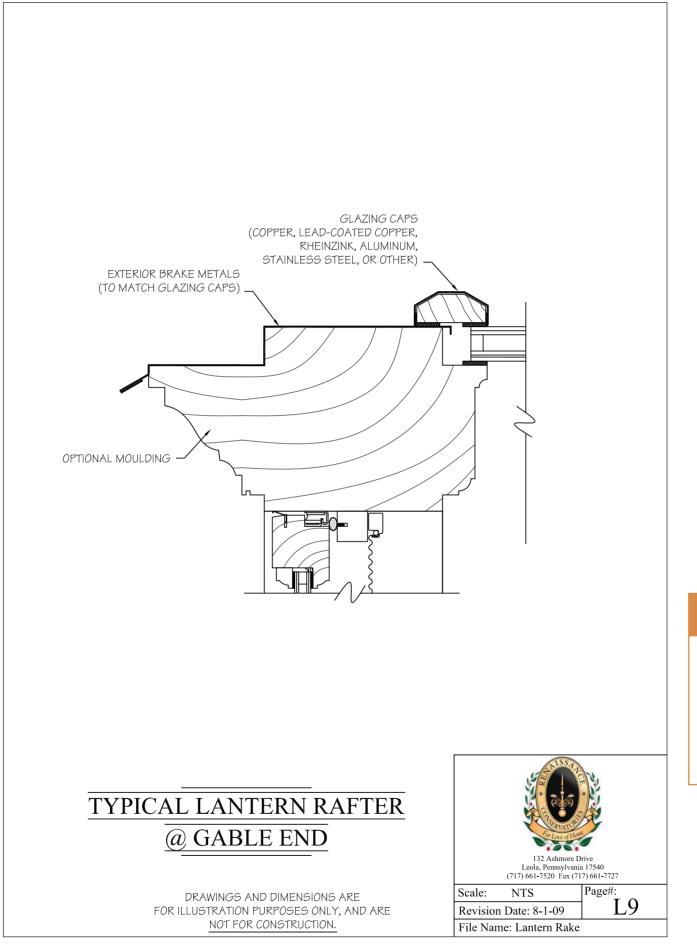




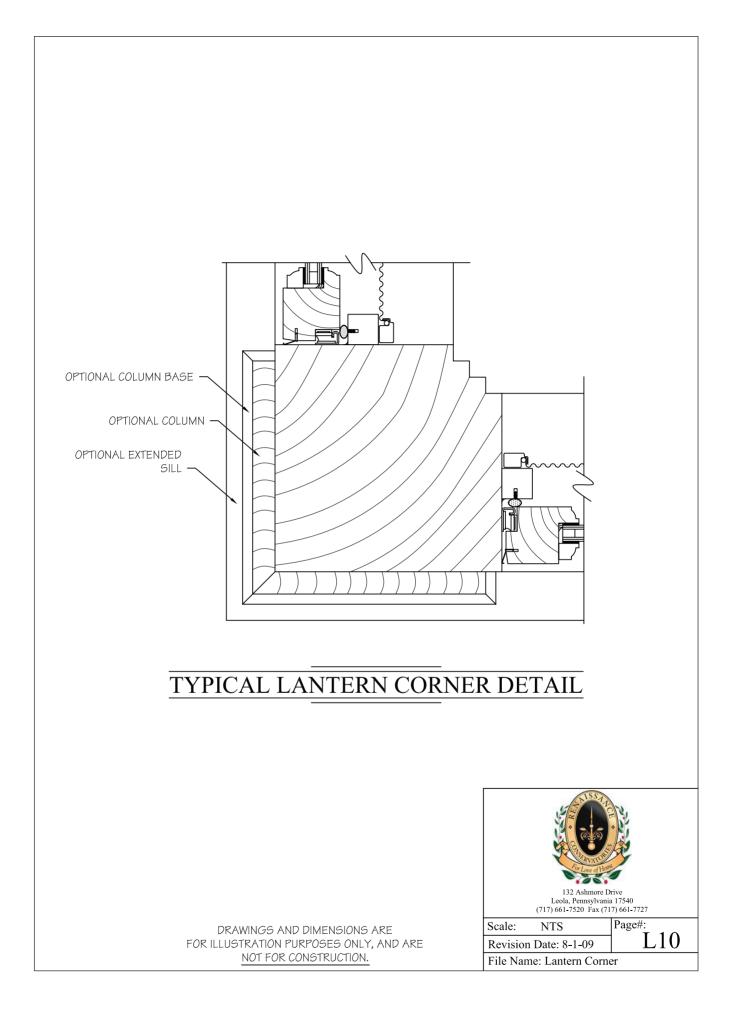


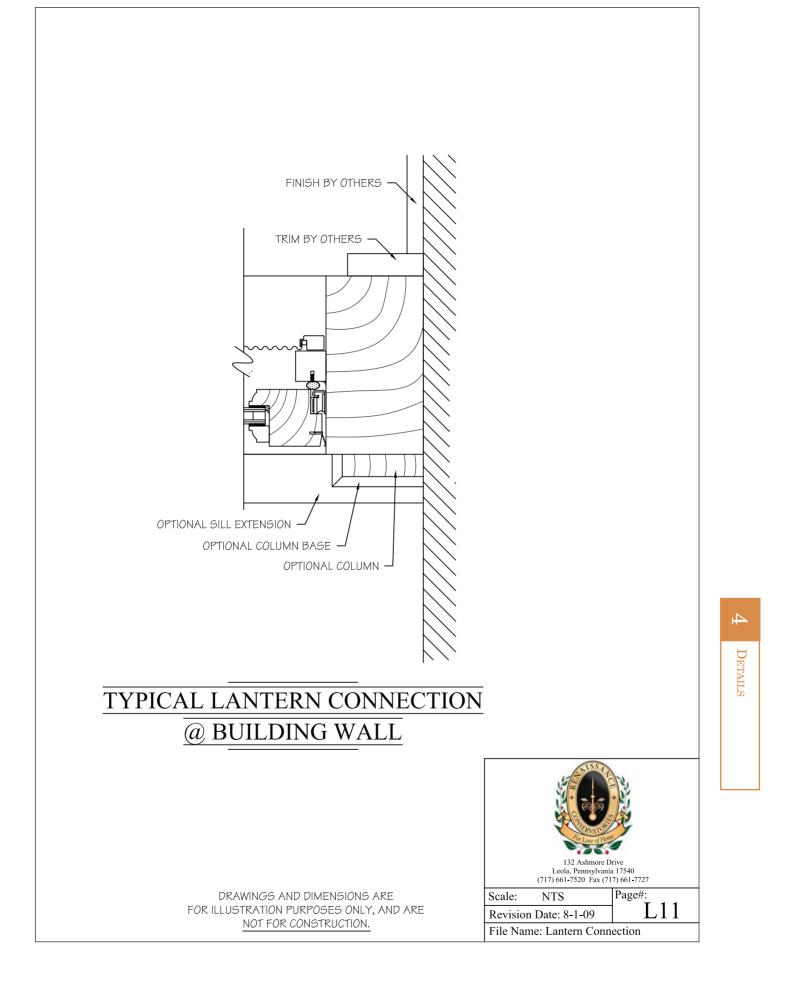


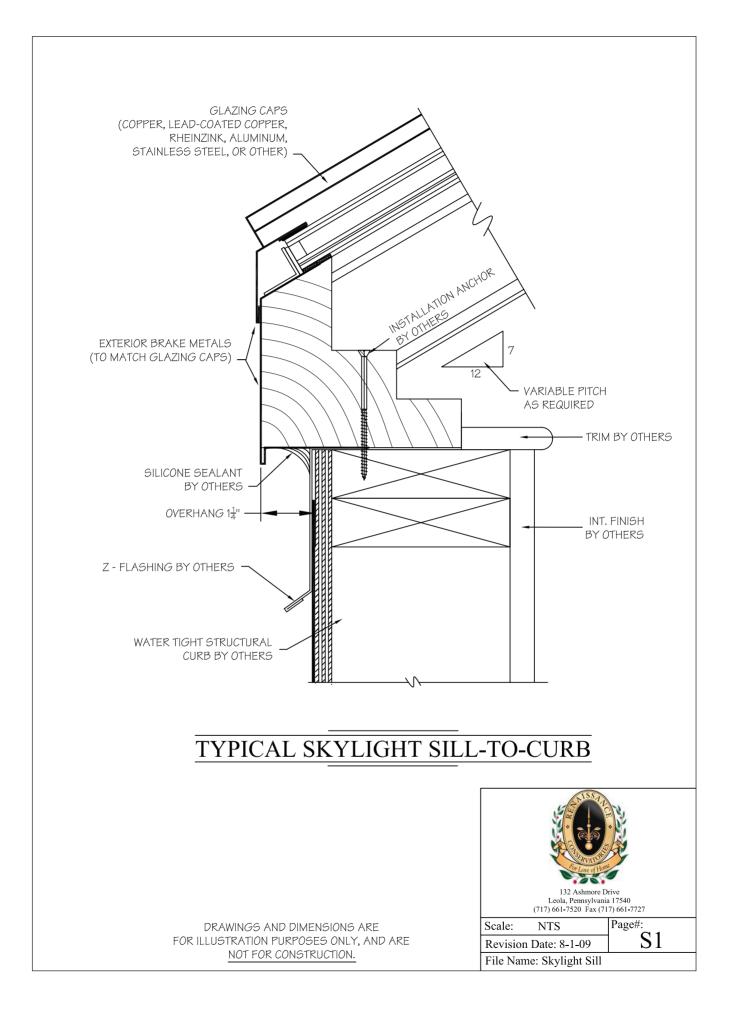


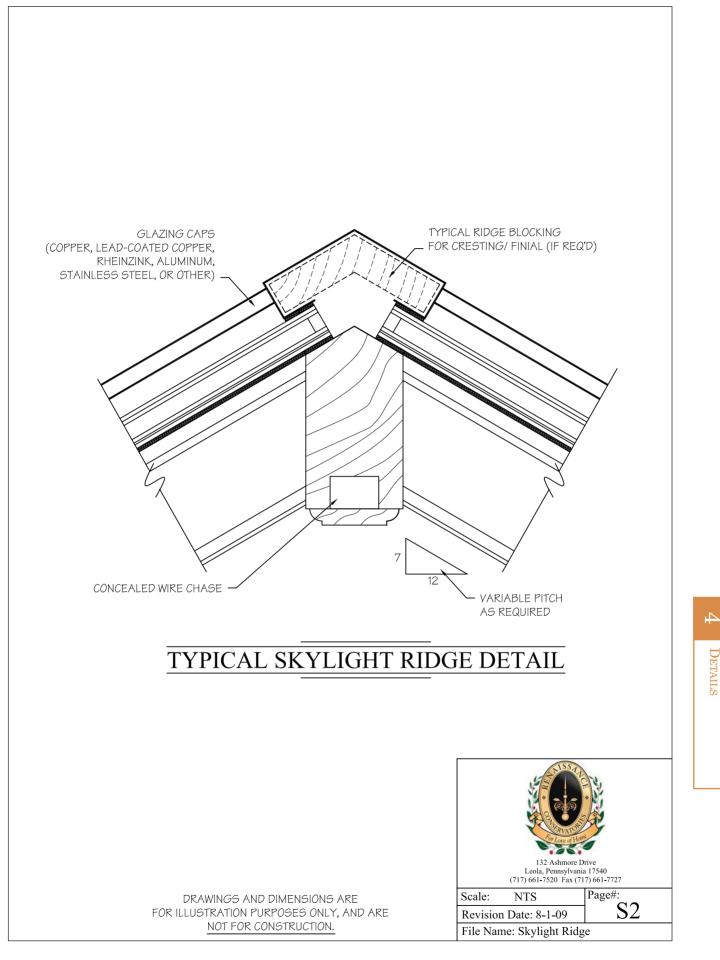


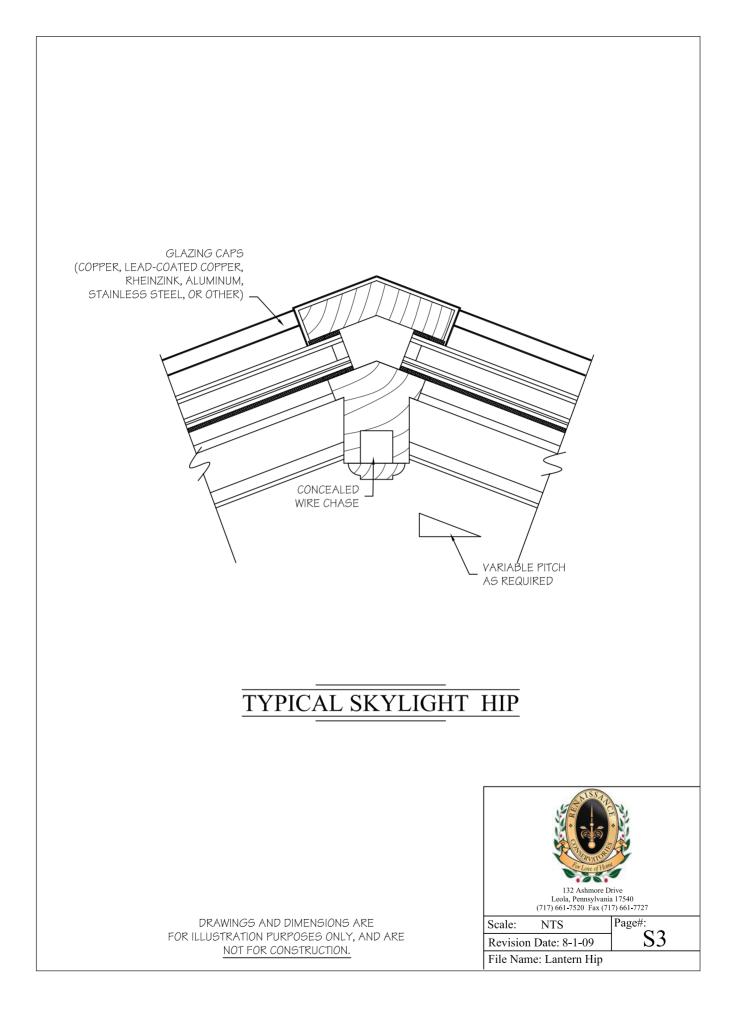
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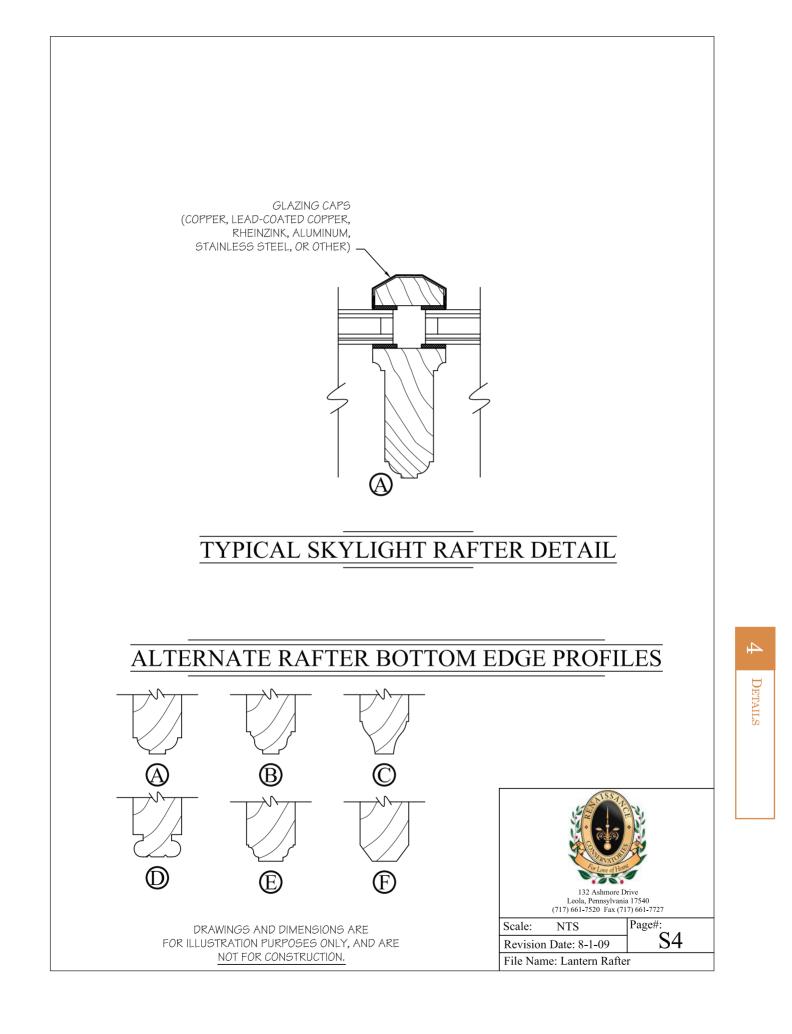


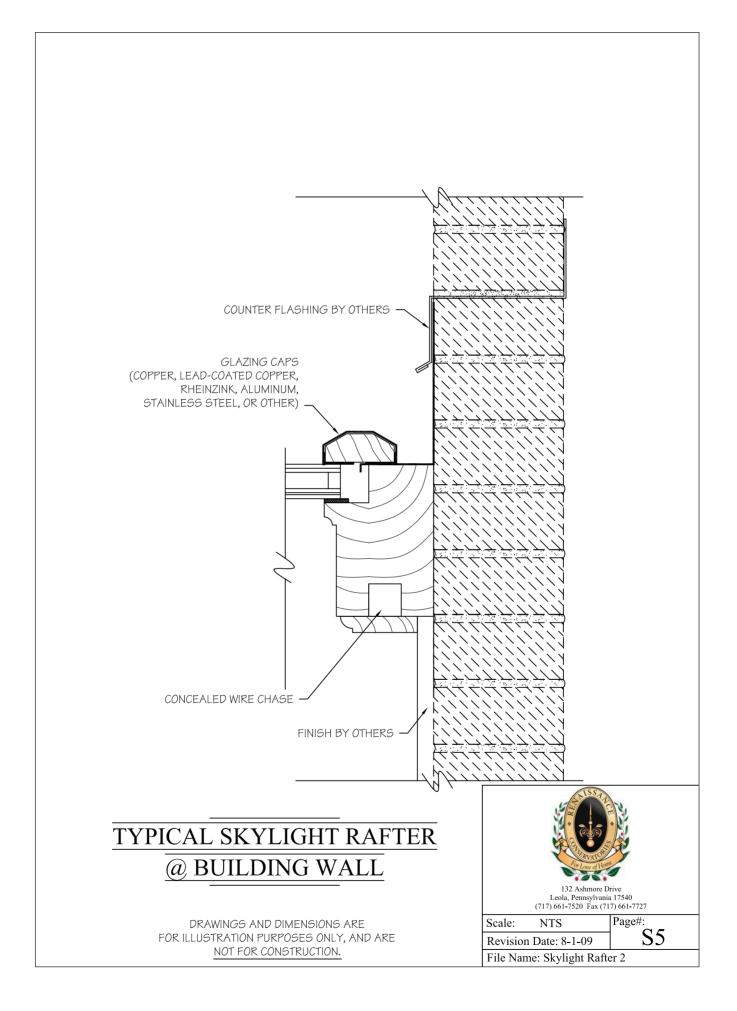


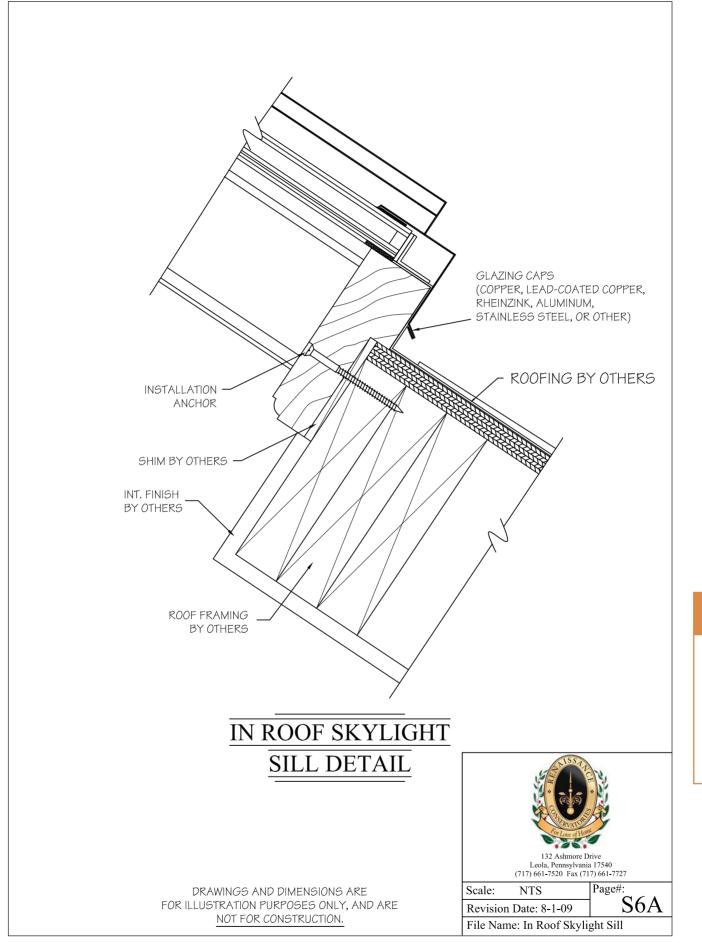




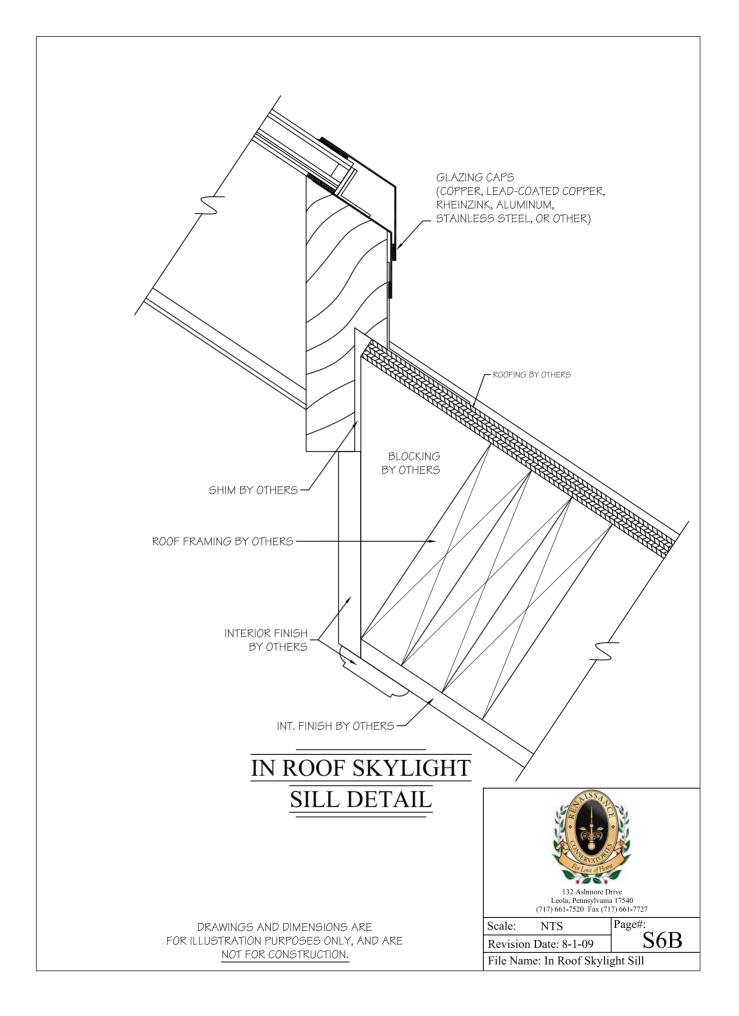


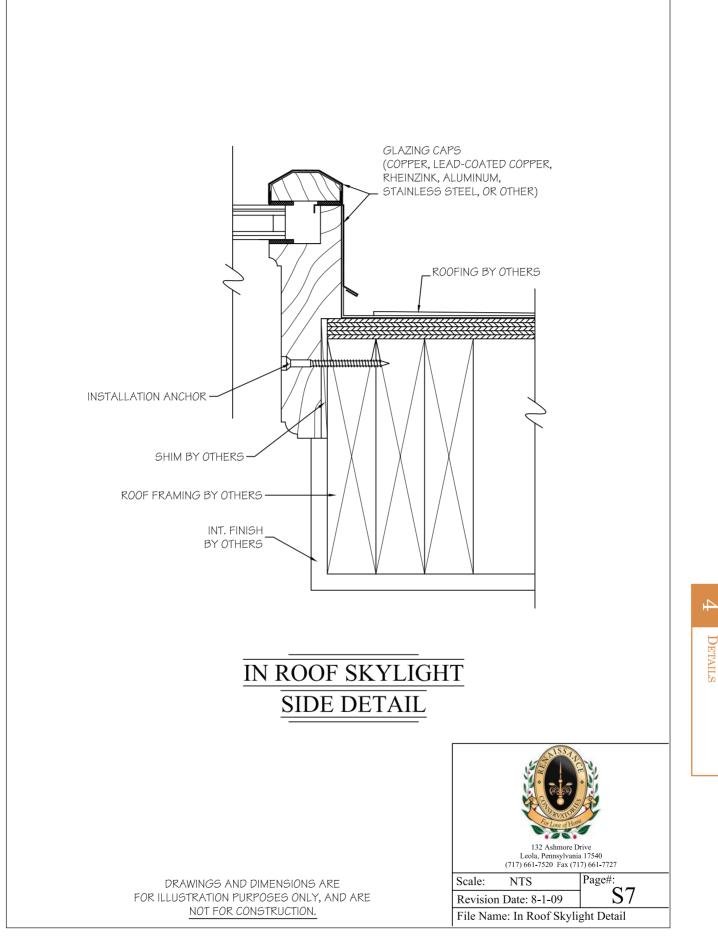


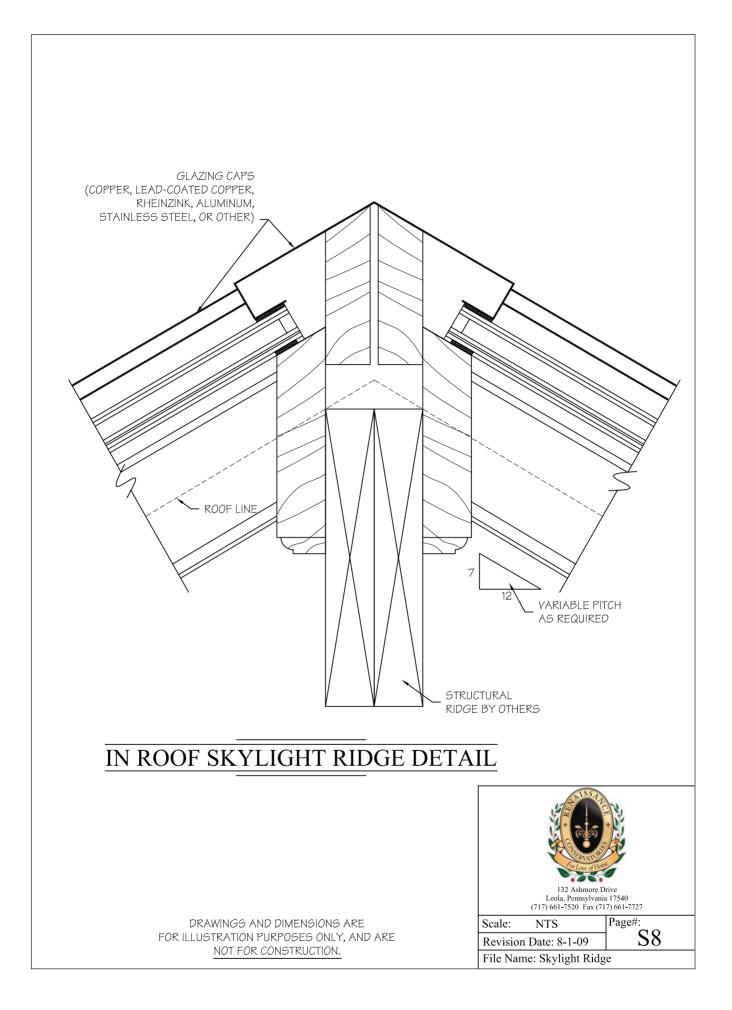


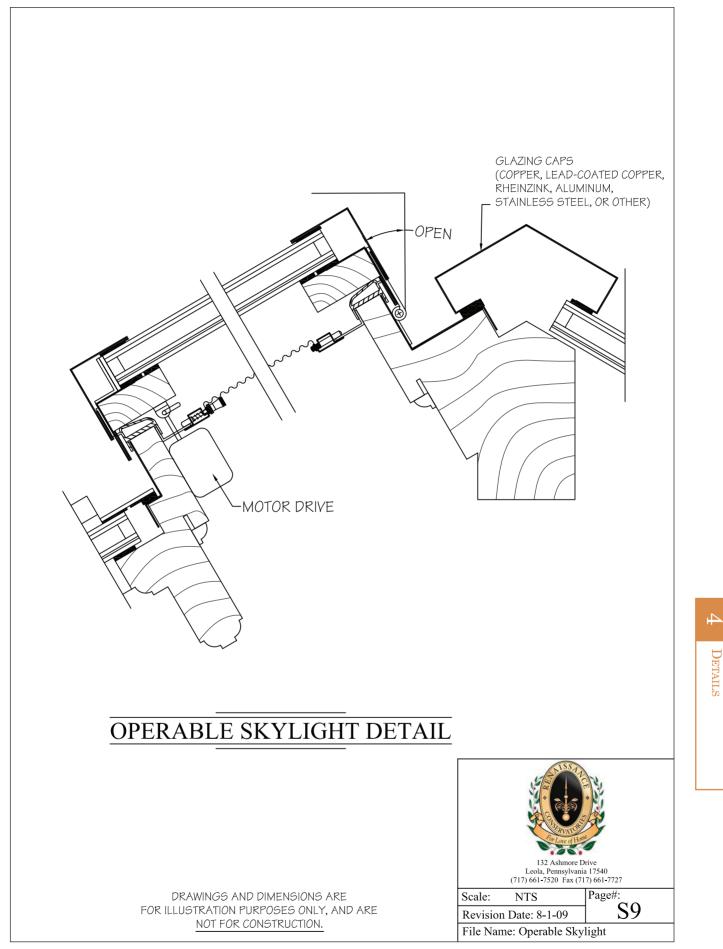


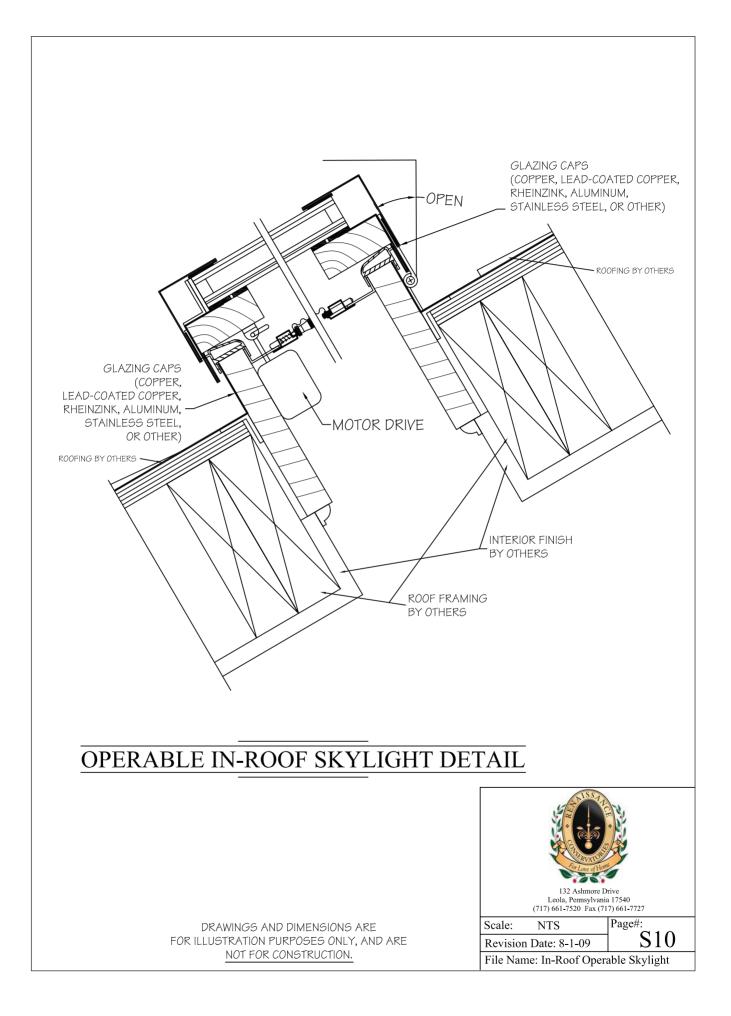
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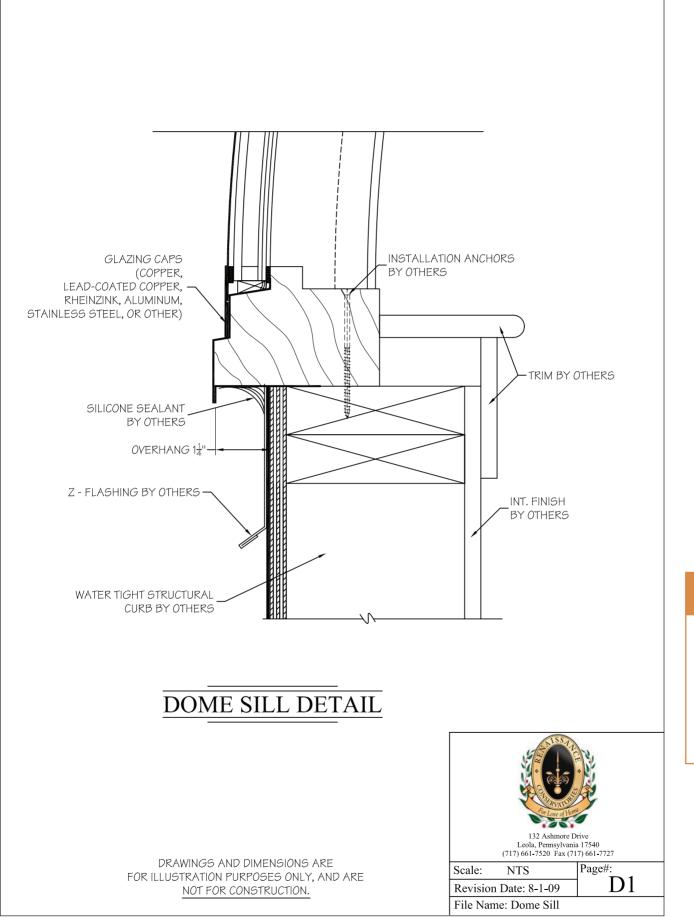




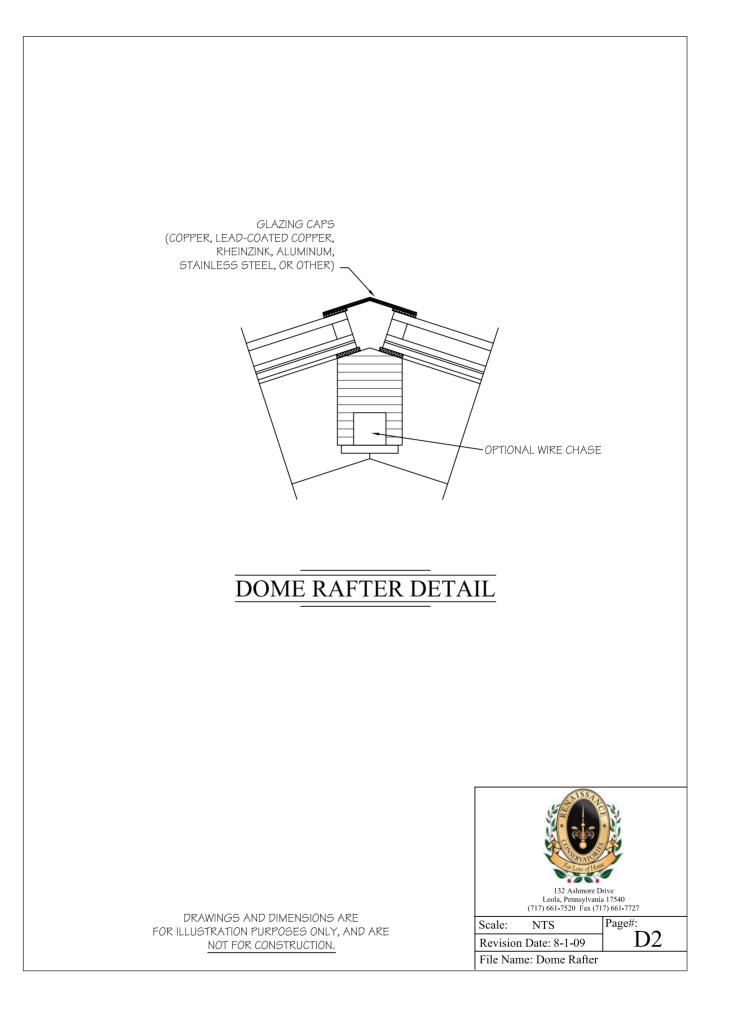








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#### RENAISSANCE CONSERVATORIES LANTERN, SKYLIGHT, GLASS ROOF & DOME WARRANTY

Effective 9/1/2009

#### (a) GENERAL DISCLAIMER-

UNLESS OTHERWISE AGREED TO BY RENAISSANCE CONSERVATORIES IN WRITING, RENAISSANCE CONSERVATORIES MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL RENAISSANCE CONSERVATORIES BE LIABLE TO THE CUSTOMER FOR SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

#### (b) GLASS WARRANTY-

Insulating glass panels are warranted to the CUSTOMER, (end-user), to be free from material obstruction of vision as a result of dust or film formation on its internal glass surfaces caused by failure of the hermetic edge seal due to faulty manufacturing of the unit for a period of ten (10) years from the date of manufacture in accordance with the following conditions and limitations:

- (1) This warranty is valid to the original CUSTOMER (end-user) and is transferable to any subsequent owners.
- (2) The Lantern or Skylight must be installed in strict accordance with RENAISSANCE CONSERVATORIES' recommended installation instructions, drawings and/or details without exception, including the use of adequate fasteners.
- (3) Factory-supplied sealants and flashing must be used exclusively.
- (4) T he Lantern or Skylight CAN be part of an enclosure hot tub, spa, swimming pool, pond, or any other source of unusually high humidity.
- (5) Structural movement of any type will make this warranty null and void.
- (6) RENAISSANCE CONSERVATORIES assumes no responsibility for glass breakage, water leakage, condensation, improper usage, or failure of the insulating glass on account of faulty installation, faulty building construction, faulty design, improper handling, improper storage, or failure to follow RENAISSANCE CONSERVATORIES' instructions regarding installation.
- (7) RENAISSANCE CONSERVATORIES' sole responsibility is to replace the failed insulating glass, F.O.B. Leola, Pennsylvania, and includes no other expense, such as labor costs of any kind. The CUSTOMER'S exclusive remedy, in lieu of all incidental, special, or consequential damages including the case of negligence is limited to furnishing of another insulating glass unit as heretofore described in accordance with the following schedule:

Year 1 through Year 10: RENAISSANCE CONSERVATORIES will supply replacement glass to Customer at no cost F.O.B. Leola, Pennsylvania.

(8) In each and every case where a replacement insulating glass unit is supplied, the warranty on said unit will extend only for the balance of the original twenty (20) year period.

#### (c) FRAMES & SASH WARRANTY -

Unless otherwise stated in the specifications, RENAISSANCE CONSERVATORIES warrants the wood frames and wood sash to be manufactured in accordance with the dimensions and specifications supplied by the CUSTOMER on the Approved Shop Drawings, and to be free from defects in materials and workmanship in accordance with the following conditions and limitations:

- RENAISSANCE CONSERVATORIES warrants any laminated sash to meet or exceed industry standards and warrants against bowing and warp for a period of two (2) years from the date of manufacture, and against de-lamination for a period of five (5) years from the date of manufacture.
- (2) This warranty is valid to the original CUSTOMER (end-user), and is transferable to any subsequent owners.
- (3) It is the CUSTOMER'S sole responsibility to properly apply and maintain an acceptable and effective seal and finish on the sash and the Lantern or Skylight frames in accordance with RENAISSANCE CONSERVATORIES' recommended "Final Finishing Instructions" which are prominently depicted on the Drawings, and/or attached to the product at the time of sale, attached to this Warranty, and online at www.renaissanceconservatories.com.
- (4) Wood is subject to random variations in grain, texture, color, and other variations which are beyond the control of RENAISSANCE CONSERVATORIES, and these normal naturally-occurring variations are not defects, and are specifically excluded from any warranty coverage.
- (5) Bow or warp shall not be considered a defect unless it exceeds 1/4" in the plane of the sash.
- (6) Claims due to bowing or warp may be deferred for up to nine (9) months from date of claim in order to allow for conditioning and equalizing to humidity and temperature conditions.
- (7) RENAISSANCE CONSERVATORIES agrees to either replace, or at RENAISSANCE CONSERVATORIES' sole discretion, repair defective materials and/or workmanship.
- (8) RENAISSANCE CONSERVATORIES will not participate in or be responsible for any liability for any incidental, special, or consequential damages resulting from bowing or warp, de-lamination, or defects of any kind, and the CUSTOMER'S exclusive remedy is limited to furnishing replacement materials in the condition the materials were originally provided, and under no circumstances includes installation labor.

#### (d) HARDWARE WARRANTIES -

Sash operators and locks (excluding motors) are warranted by the hardware manufacturer's limited lifetime warranty, a copy of which is available on request. Additional products provided by RENAISSANCE CONSERVATORIES carry the manufacturers' pass-through warranties, copies of which are available on request.

CUSTOMER	Job No	Date of N	anufacture	//	Dwg. No
					-
	RENAISSANCE	E CONSERVATORIES			
132 Ashmore Drive, Leola, PA 1754	800-882-4657	Fax 717-661-7727	www.Renaissa	inceConsei	rvatories.com

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# LOOK TO RENAISSANCE CONSERVATORIES

YOUR TRUSTED SOURCE FOR ALL YOUR SPECIALTY GLAZING NEEDS

Fine Conservatories In The Classical Tradition

Magnificent Garden Windows Estate Quality Horticultural Greenhouses Sensational Commercial Enclosures Luxurious Pool Enclosures









## **R**ENAISSANCE CONSERVATORIES

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