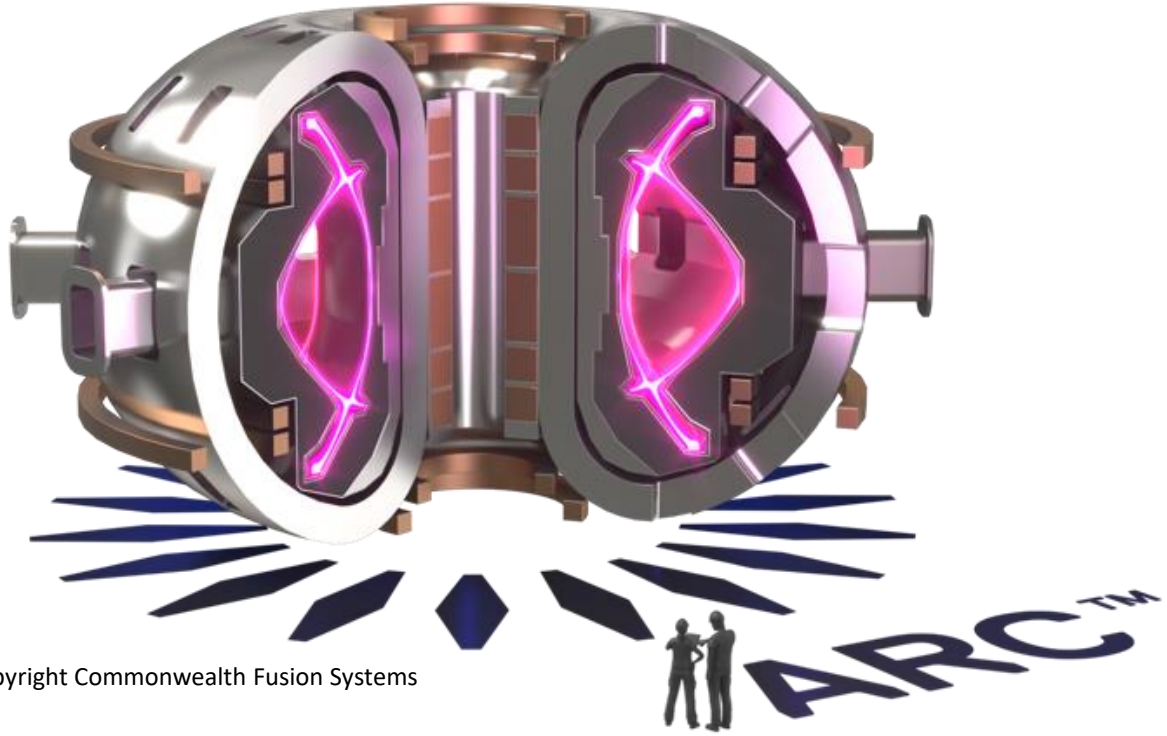
CFS-3

Commonwealth Fusion Systems – Building 3



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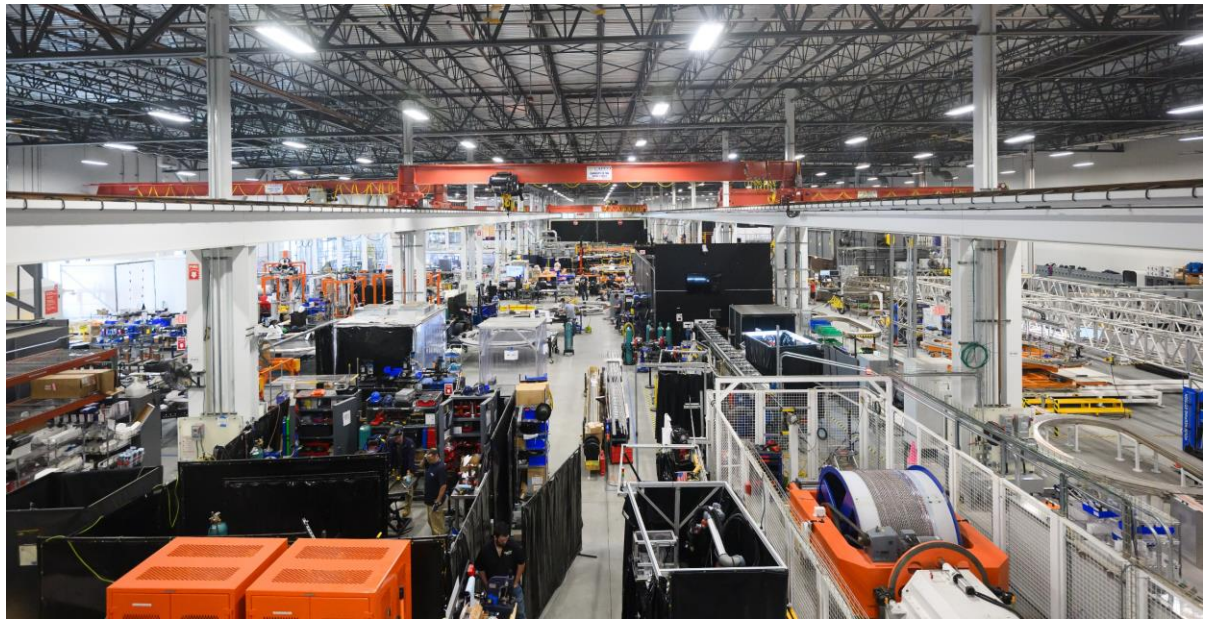

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PIVOTAL
MANUFACTURING PARTNERS

Leggat McCall PROPERTIES

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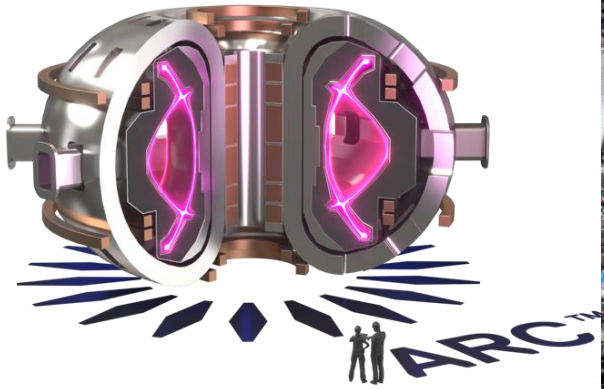

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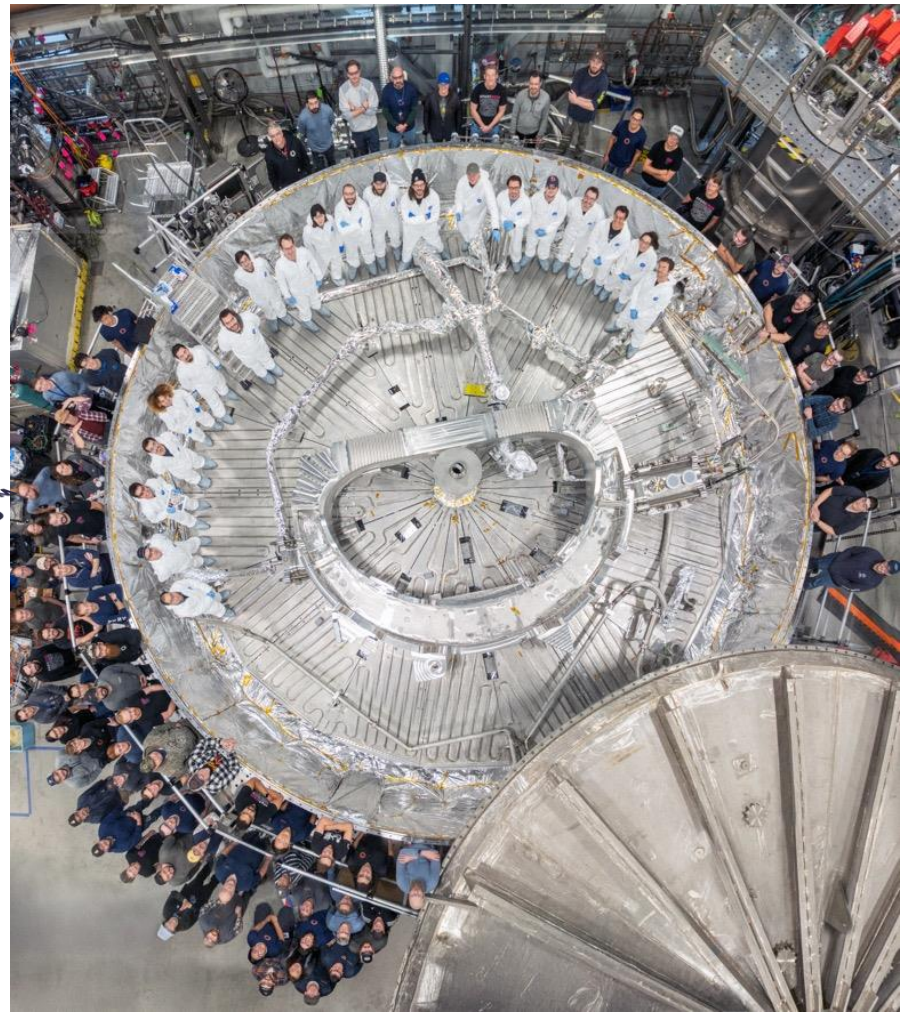

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PIVOTAL MANUFACTURING PARTNERS

Leggat McCall PROPERTIES

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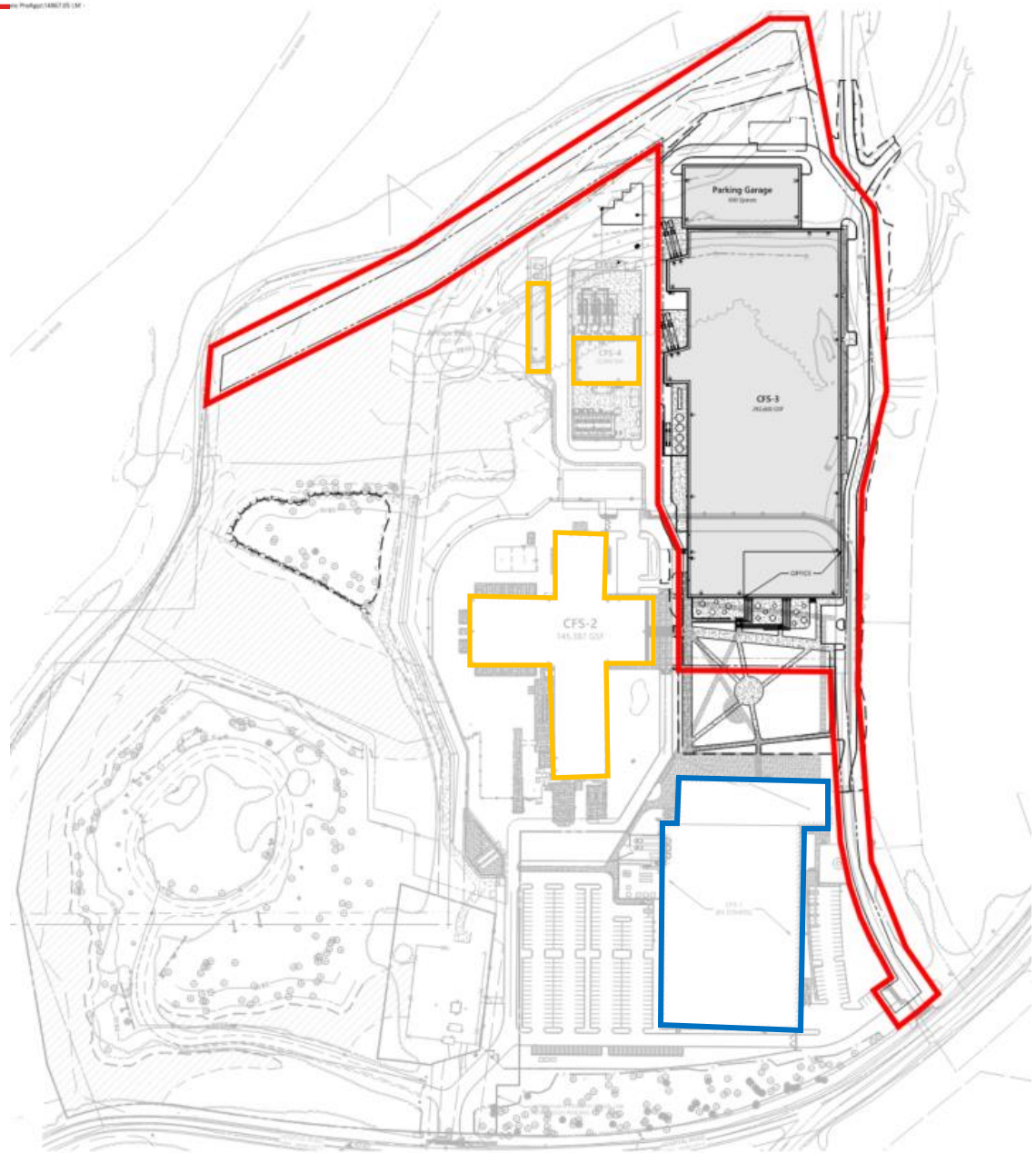
Campus Overview



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Leggat McCall PROPERTIES

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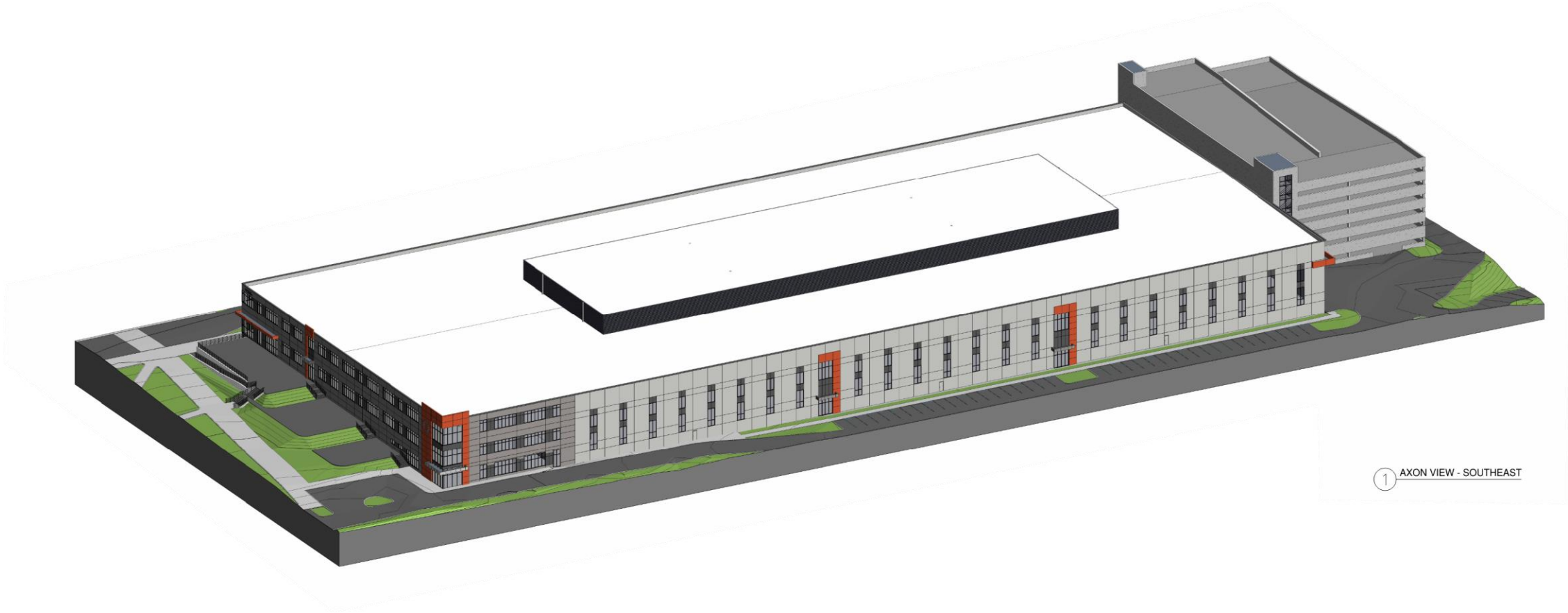
Building Overview



Commonwealth Fusion Systems

PIVOTAL MANUFACTURING PARTNERS

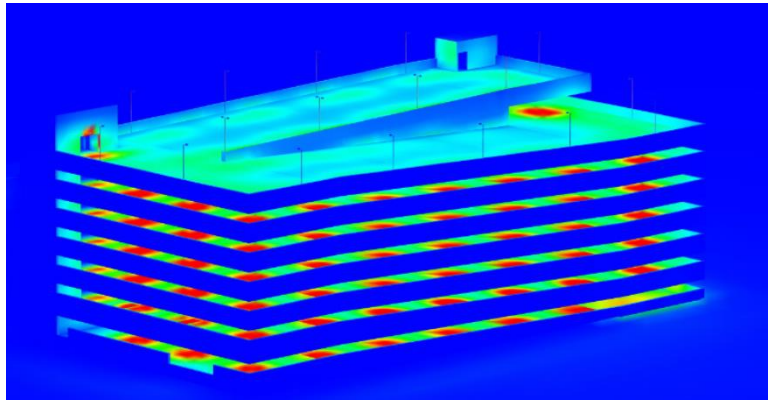
Leggat McCall PROPERTIES

Garage Lighting, Design and Operations

- Minimize garage “openness”
- Raise spandrel and parapet walls
- Select exterior building materials
- Specify light fixtures that reduce glare and light spillage “shielding”
- Decrease fixture brightness and evenly distribute to reduce “hot spots”
- Increase vegetative screening
- Utilize occupancy sensors of lighting
- Lower utilization at night and weekends
- Shift Changes

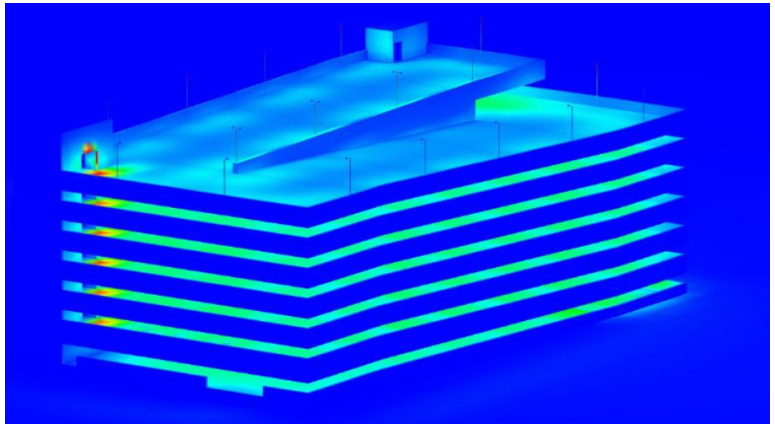
Garage Lighting & Design

Typical Lighting Design



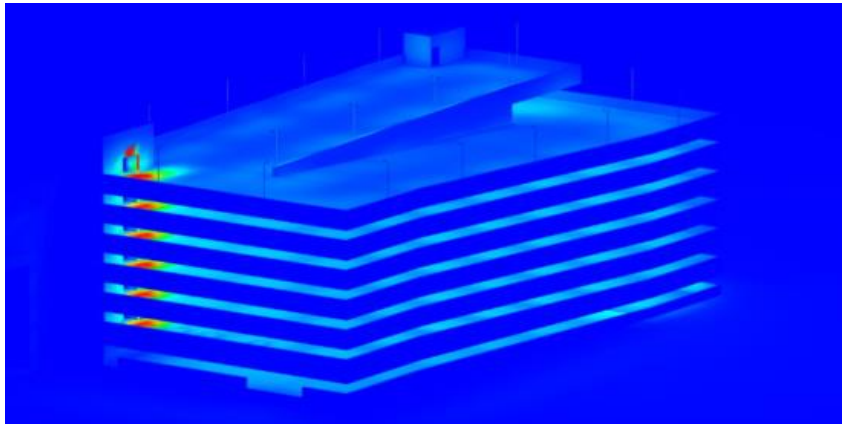
Calculation Summary for a Typical Tier
Average Levels = 5.78 Fc
Average Maximum = 17.43 Fc
Average Minimum =1.98 Fc
Average Min/Max = 10.14 Fc

12/16 Lighting Approach



Calculation Summary for a Typical Tier
Average Levels = 3.24 Fc
Average Maximum = 5.73 Fc
Average Minimum =1.55 Fc
Average Min/Max = 4.28 Fc **(57% Reduction)**

1/27 Lighting Approach

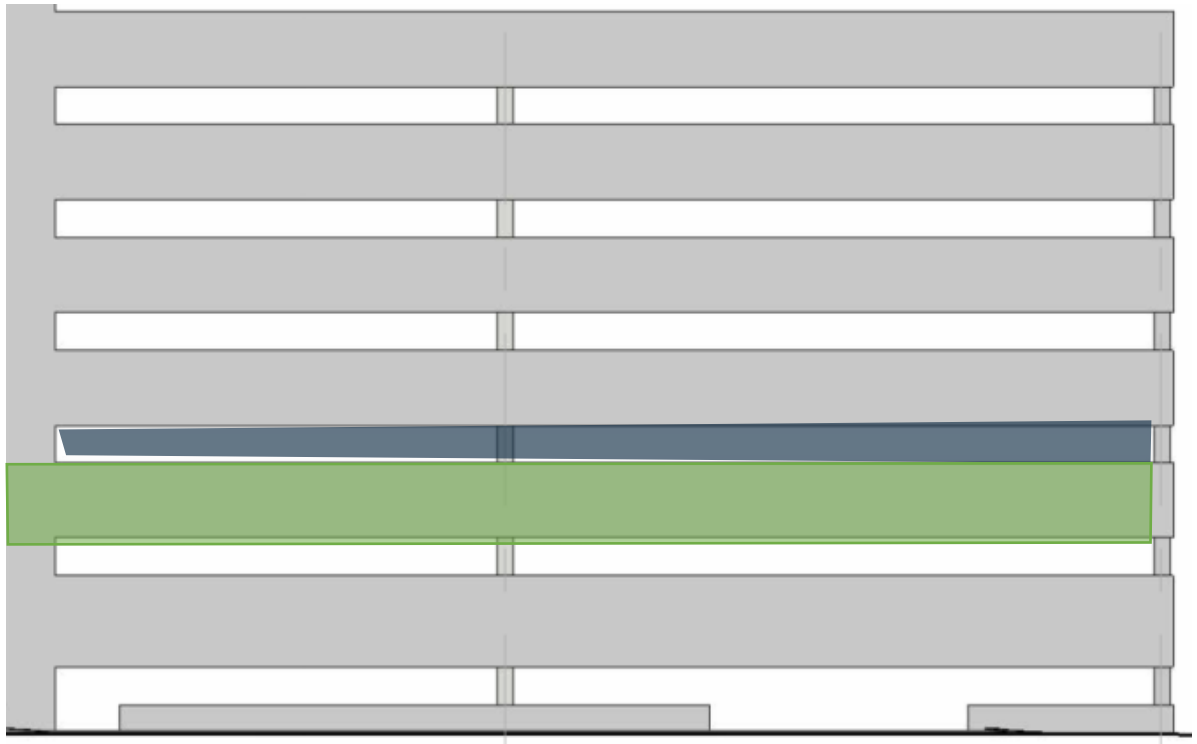


Commonwealth Fusion Systems

PIVOTAL MANUFACTURING PARTNERS

Leggat McCall PROPERTIES

Garage Lighting & Design



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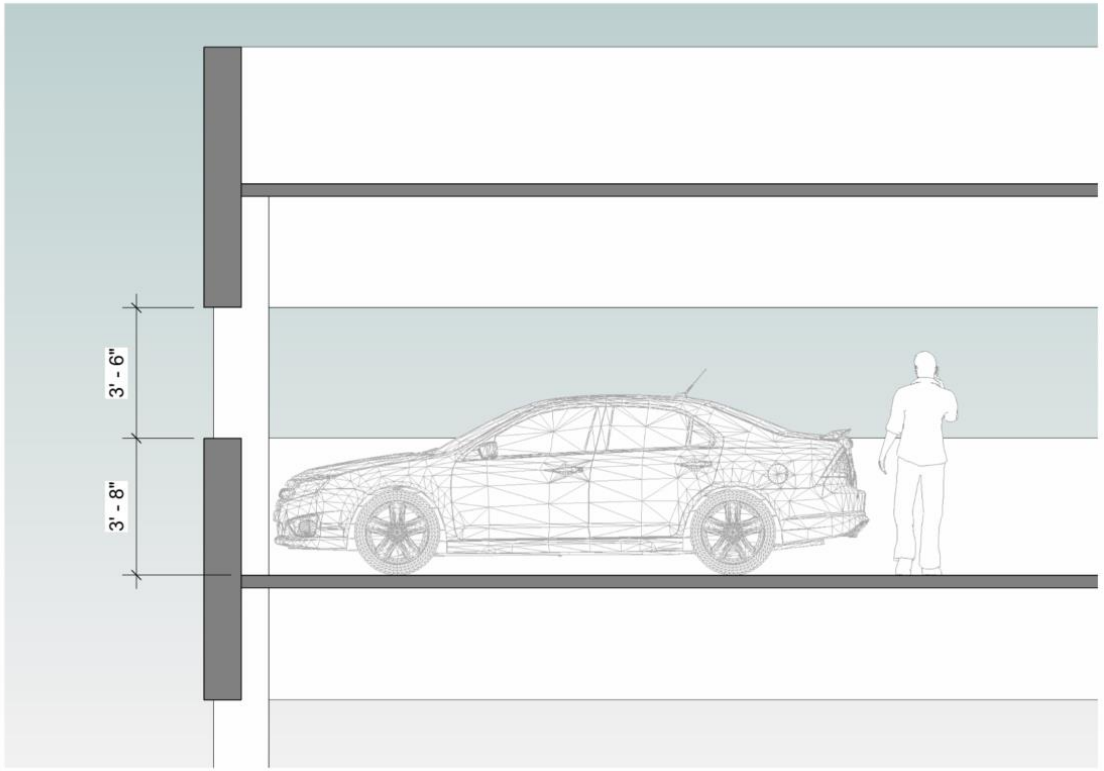
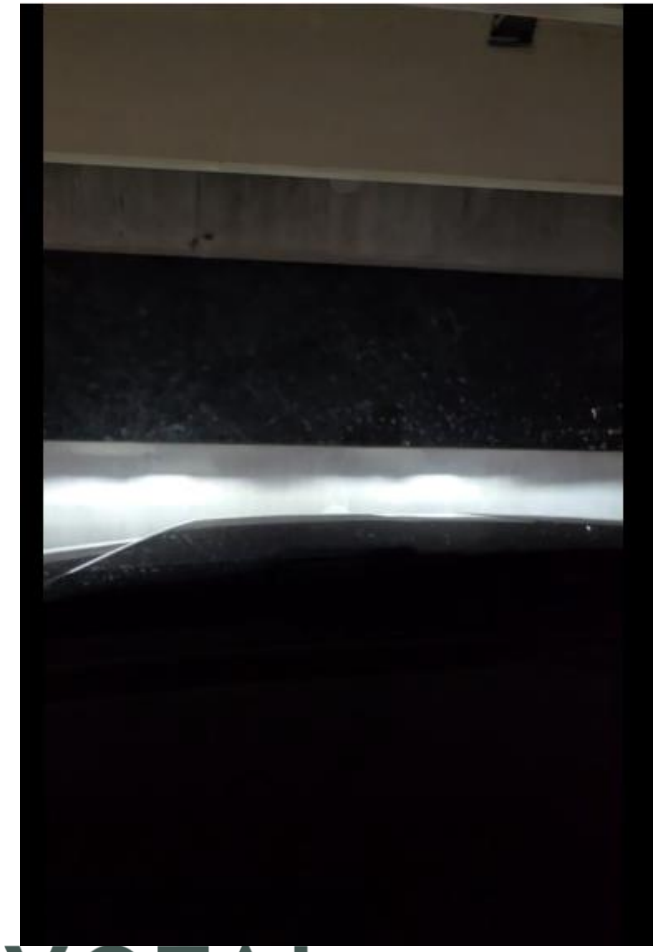
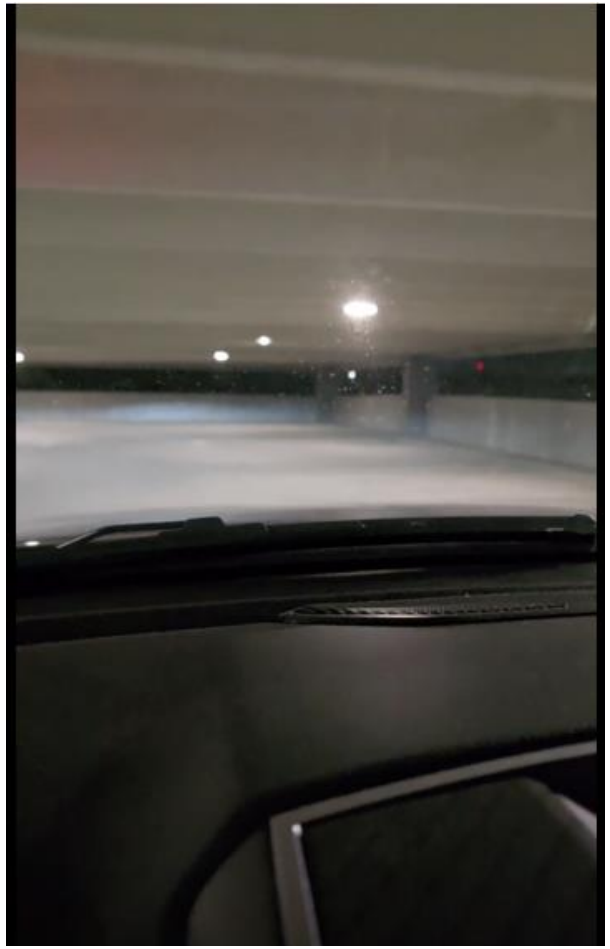
Garage Lighting & Design







Commonwealth Fusion Systems

PIVOTAL
MANUFACTURING PARTNERS

Leggat McCall PROPERTIES

Building Lighting & Design and Operations

- Select exterior building materials
- Specify light fixtures that reduce glare and light spillage “shielding”
- Exterior lighting a pedestrian level
- Utilize occupancy sensors of for exterior lighting
- Window film selection
- Increase vegetative screening

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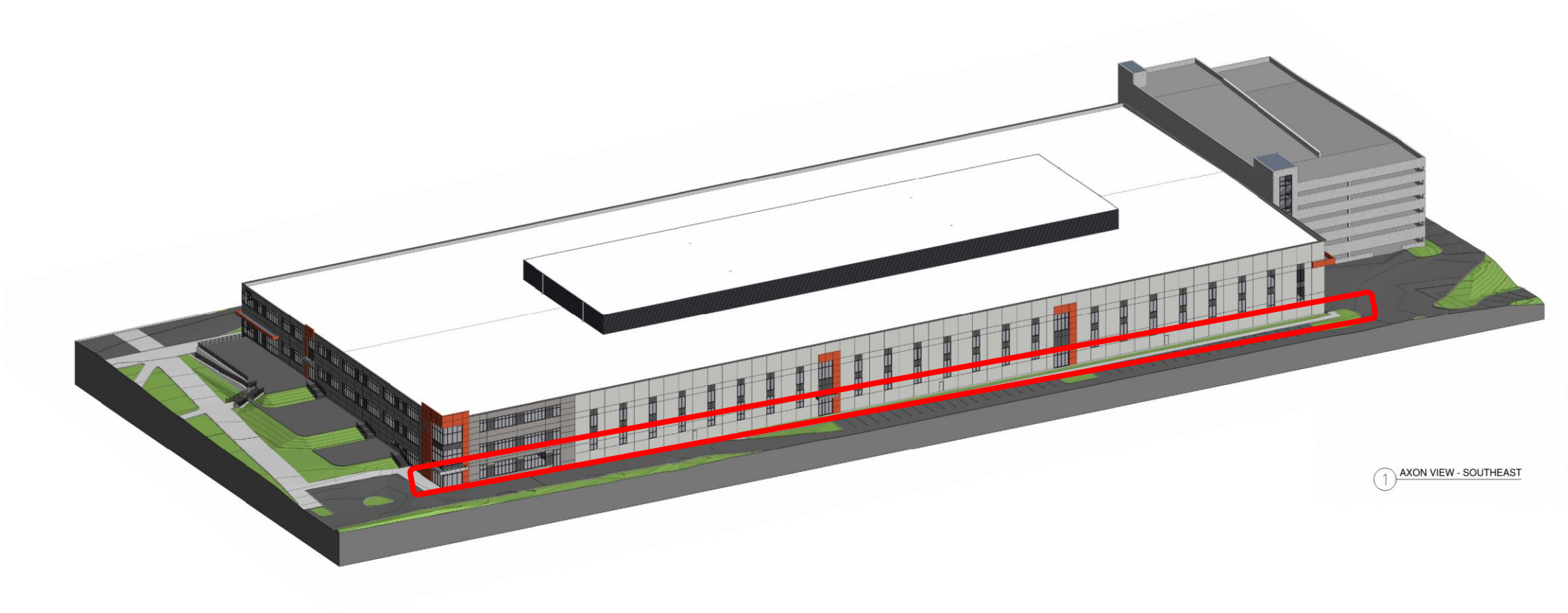
Building Lighting & Design and Operations



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PIVOTAL MANUFACTURING PARTNERS

Leggat McCall PROPERTIES

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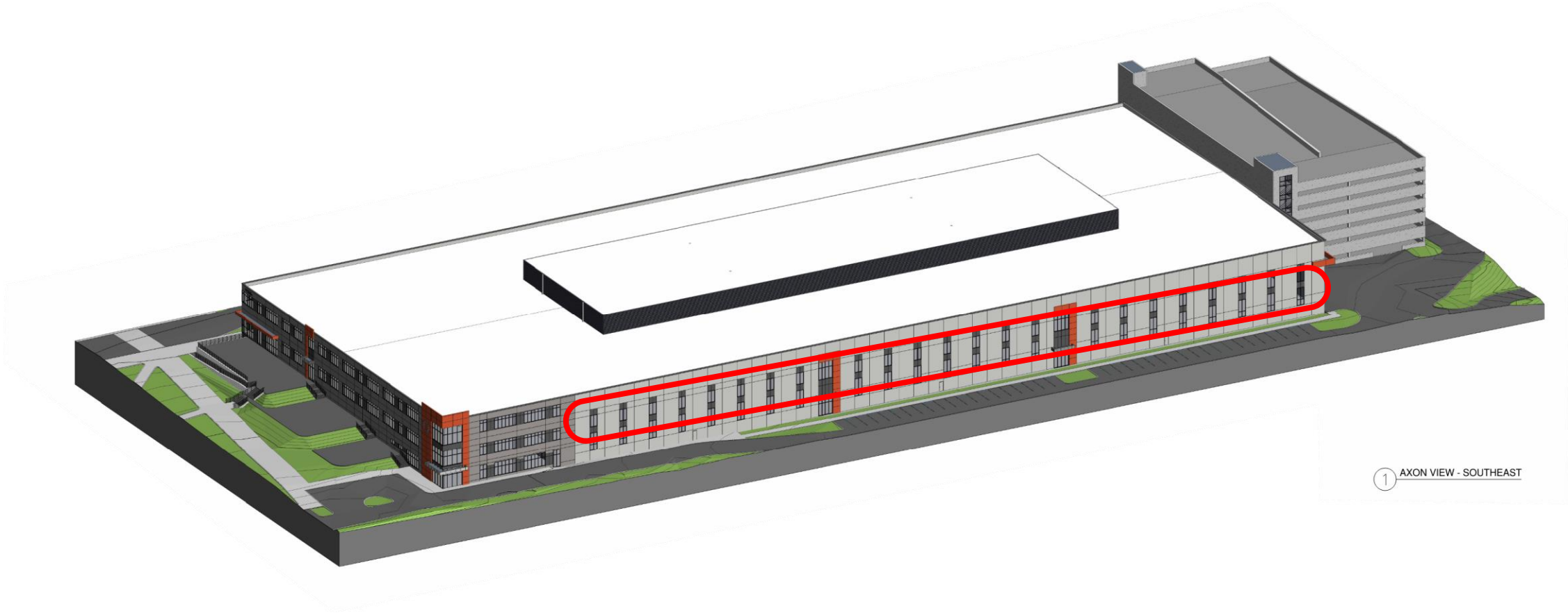
Building Lighting & Design and Operations



Commonwealth Fusion Systems

PIVOTAL MANUFACTURING PARTNERS

Leggat McCall PROPERTIES

Building Lighting & Design and Operations

Specification Sheet decorativefilms

SOLYX® Glass Finishes

SXGF-0097 Deep Etch

Manufacturer Detail
SOLYX® **SXGF-0097 Deep Etch** film is recommended for application to interior and exterior glass. This film is a 3 mil (75 micron) decorative polymeric flexible vinyl film coated with a solvent based permanent acrylic pressure-sensitive adhesive with a 1 mil polyester liner.

Durability
OUTDOOR: 7 years based on vertical exposure and depending on magnitude of UV exposure
INDOOR: 15 years

Fire Rating
When applied to glass or plastic surfaces:
Horizontal Burn (Flame Spread) ASTM D-635 inch Less than 1.0
UL 94 Rating UL Classification V-O
Class A 0 -25 Flame Spread Index 0 -450

Product Description

SOLYX® **SXGF-0097 Deep Etch** is a clear translucent, high grade decorative polymeric vinyl film designed to give simulated frosted glass or an impression of etched, cut or sandblasted glass and used in decorative design applications including shop windows, glass doors and glass-like surfaces. It is perfect for privacy, decorative or architectural applications.

Specifications

Product Code	SXGF-0097
Product Family	Simple Frosted
Film Type	Vinyl
Adhesive Type	Pressure-sensitive
Usage	Interior or Exterior
Available Width(s)	60" (1524mm)
Full Roll Length	100 linear feet (30.5m)
Thickness	3 mil
Shading Coefficient	
Visible Light Reflection	80%
Visible Light Transmission	20%
UV Transmission	25%
Infra-Red Transmission	30%

Product Construction

Face Film
3 mil vinyl

Adhesive
Solvent-based clear acrylic, Pressure-sensitive

Release Liner
1 mil polyester

Product Details

Installation and Warranty

Installation
Installation should be in accordance with manufacturer's installation instructions.

Warranty
This SOLYX® product will be free from defects in material and manufacture for a period of ten (10) years from the date of installation. Manufacturer shall warrant and agree to replace any defective glazing from, including failure to maintain its specified properties without cracking, peeling, loosening, fading, or discoloring for the following period after Substantial Completion.

Product Distribution and Contact Information

Distribution
SOLYX® **Decorative Films** are available through qualified Installing Dealers, Distributors or from Decorative Films, LLC.

Samples submitted upon request.

Contact Information
Decorative Films, LLC
1-888-657-5224
www.decorativefilm.com

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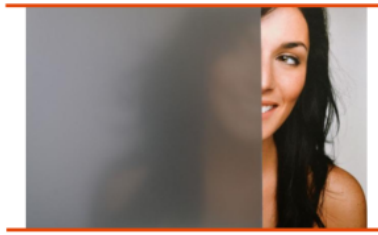
Specification Sheet decorativefilms

SOLYX® Glass Finishes

SXWF-CM Charcoal Matte



Product Description

SOLYX® **SXWF-CM Charcoal Matte** is a smooth, charcoal-tinted, translucent polyester film that is ideal for obscuring direct visibility while allowing good light transmission.

Specifications

Product Code	SXWF-CM
Product Family	Frosted
Film Type	Polyester
Adhesive Type	Pressure-Sensitive
Usage	Interior
Available Width(s)	60" (1524mm)
Full Roll Length	100 linear feet (30.5m)
Thickness	2 mil
Shading Coefficient	0.78
Visible Light Reflection	9%
Visible Light Transmission	12%
UV Transmission	9%
Solar Heat Reflection	7%
Solar Energy Absorbed	38%
Glare Reduction	35%
U Value	1.14

Product Construction

Face Film
2 mil Polyester

Adhesive
Clear, Pressure-Sensitive

Release Liner
Silicone Coated

Product Details

SOLYX® **SXWF-CM Charcoal Matte** is a smooth, charcoal-tinted, translucent polyester film. Manufactured with a silicone coated liner which protects the clear, pressure-sensitive adhesive, it is designed for application to interior glass, single- or double-pane, and exterior facing glass. It is ideal for privacy, decorative, or architectural applications.

Flammability Rating
This product meets ASTM E84 and is classified as Class A as defined in NFPA 101, Life Safety Code®.

LEED Credit EQ 4.1 Low Emitting Materials, Adhesives & Sealants
This product has zero VOC content according to 40 CFR 59, Subpart D (EPA method 24).

Installation and Warranty

Installation
Installation should be in accordance with the manufacturer's installation instructions. This film is applied using the same tools and techniques used for installing window tinting films.

Warranty
This SOLYX® product will be free from defects in material and manufacture for a period of five (5) years from the date of installation. See warranty information for specific details.

Product Distribution and Contact Information

Distribution
SOLYX® Decorative Films are available through authorized Installing Dealers, Distributors, or dealers from Decorative Films, LLC.

Samples submitted upon request.

Contact Information
Decorative Films, LLC
1-888-657-5224
www.decorativefilm.com

Commonwealth Fusion Systems

PIVOTAL MANUFACTURING PARTNERS

LeggatMcCall PROPERTIES

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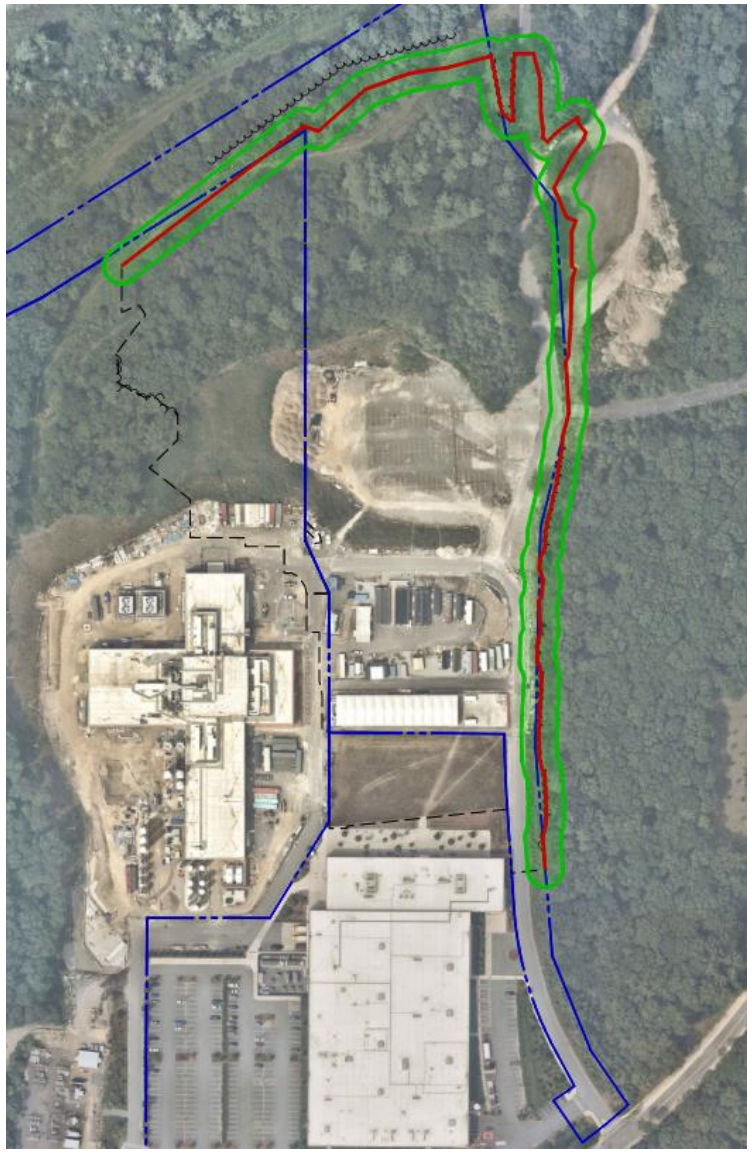
Vegetative Screening



Commonwealth Fusion Systems

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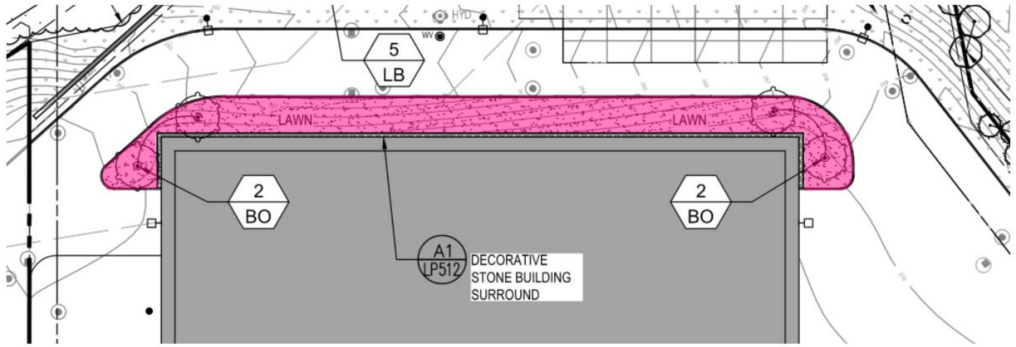
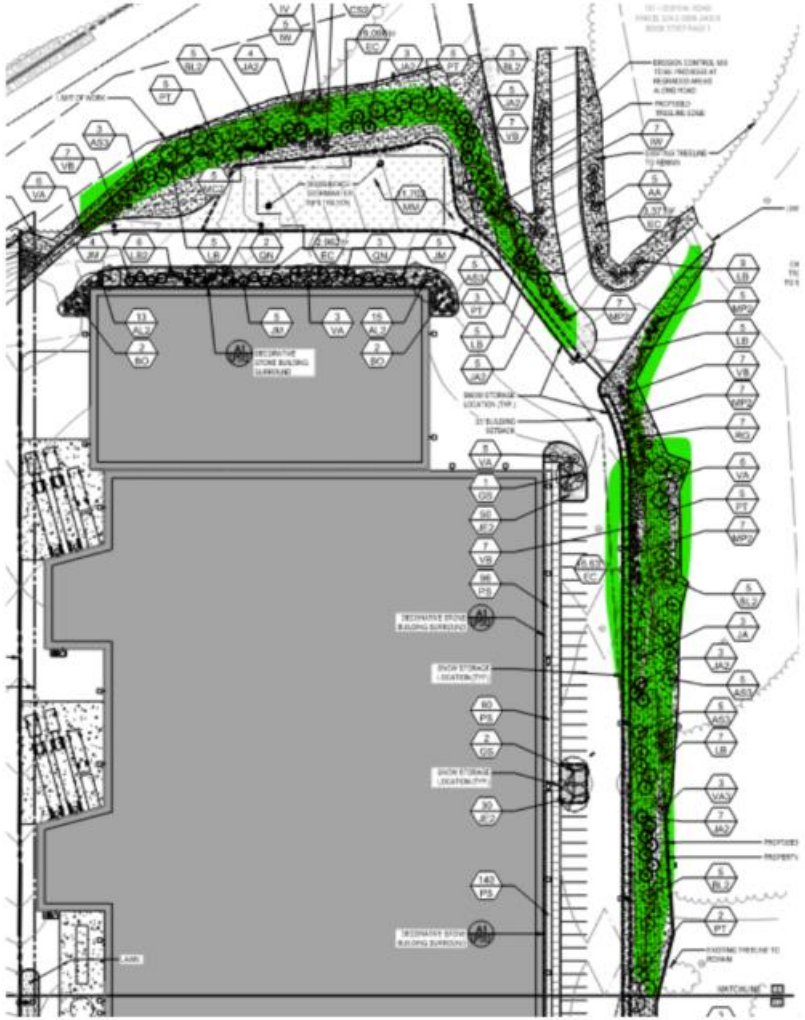
Vegetative Screening





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MANUFACTURING PARTNERS

Leggat McCall
PROPERTIES

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Low Impact Design

Commonwealth Fusion Systems

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LeggatMcCall PROPERTIES

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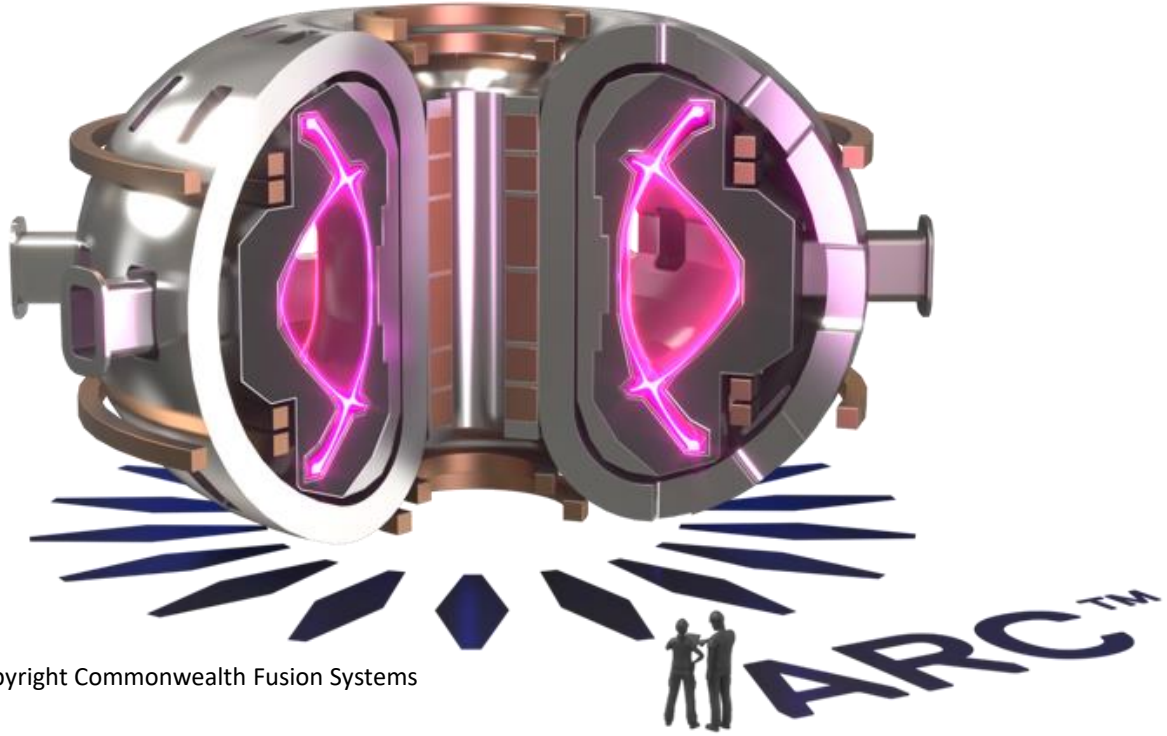
Commonwealth Fusion Systems – Building 3



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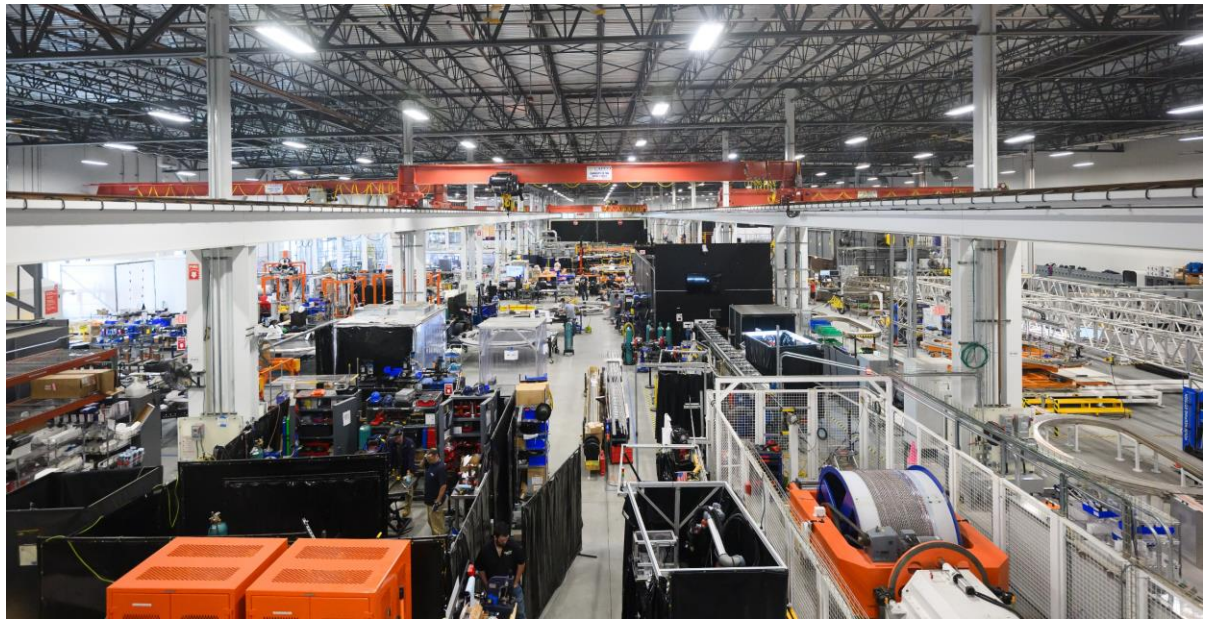

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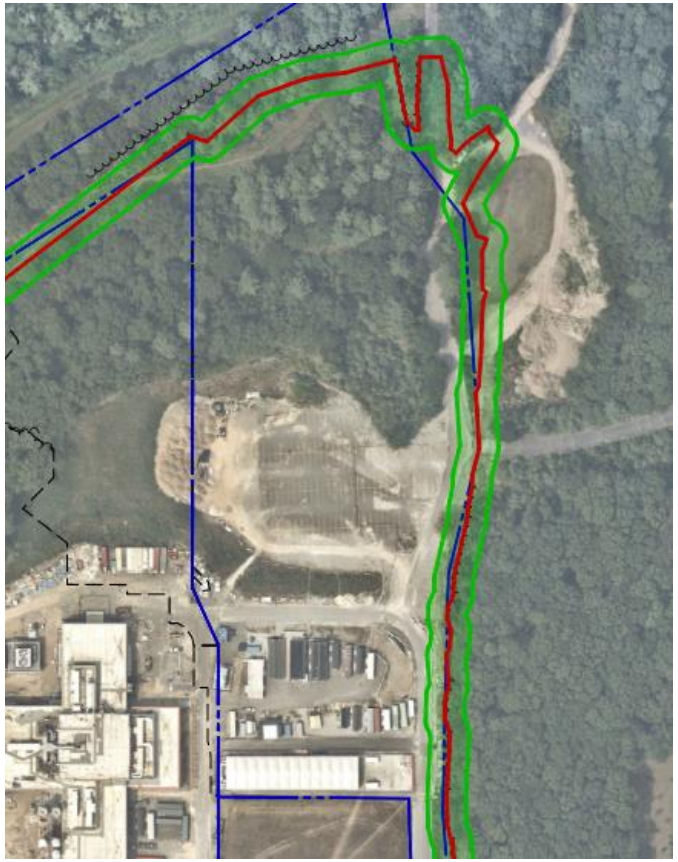
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