

ADDRESS: 222 CHURCH ST AKA 237 MARKET ST

Proposal: Alter storefront at 237 Market Street

Review Requested: Final Approval

Owner: Market 222 Church LLC

Applicant: Ivy Solomon, Ivy's Vine, LLC

History: 1920

Individual Designation: None

District Designation: Old City Historic District, Contributing, 12/12/2003

Preservation Easement: Yes

Staff Contact: Kim Chantry, kim.chantry@phila.gov

BACKGROUND:

This application proposes to install the DefenseLite product on the exterior of the storefront known as 237 Market Street, owing to security concerns of the commercial tenant. The product would be installed on the exterior over the two storefront windows and entrance door to prevent the glass from breaking. The layer of polycarbonate shields is clear and includes Gore vents to prevent moisture build-up between the glass and shields. This specific product can be installed at the interior or exterior, and is proposed for the exterior in this application. Generic section drawings are included at the end of the application. A photograph from 1960 shows a different storefront, so it is likely that the current storefront dates to a 1986 tax credit project and therefore is not historic fabric.

SCOPE OF WORK:

- Install metal filler strip around windows to make mounting surface flush with rest of wood.
- Install polycarbonate shields.
- Install white capping around perimeter.

STANDARDS FOR REVIEW:

The Secretary of the Interior's Standards for the Treatment of Historic Properties and Guidelines include:

- *Standard 9: New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.*
 - The installation as proposed involves capping of the storefront and therefore is not compatible with the historic features of the property.

STAFF RECOMMENDATION: Approval, provided the DefenseLite system is integrated into the existing storefront system in a manner that results in minimal visual impact, with the staff to review details, pursuant to Standard 9.



Figure 1. 1960 photograph showing the storefront at 237 Market Street.



Application for Construction Permit

Use this application to obtain permits for a residential or commercial construction proposal.
Mechanical / Fuel Gas, Electrical, Plumbing, and Fire Suppression trade details are found on page 2.

Address Identify the location of work for the permit(s). If the activity will take place in a specific building, tenant space, floor level, or suite, note that detail in the 'Specific Location' field. If applicable, list PR #.	1	237 Market Street, Philadelphia, PA 19106 <u>Parcel Address</u> Facade, Street Level <u>Specific Location</u> <input type="checkbox"/> Check box if this application is part of a project and provide project number: PR- 2 0 -
Applicant Identify how you are associated with the property. Licensed professionals include design professionals, attorneys, and expeditors. A tradesperson must have an active Philadelphia license for their trade or hold a PA Home Improvement Contractor Registration.	2	I am the: <input type="checkbox"/> Property Owner <input checked="" type="checkbox"/> Tenant <input type="checkbox"/> Equitable Owner <input type="checkbox"/> Licensed Professional or Tradesperson Ivy Solomon <u>Ivy's Vine, LLC</u> <u>Name</u> <u>Company</u> 237 Market Street, Philadelphia, PA 19106 <u>Address</u> ivy@lovelybride.com <u>6 1 0 6 6 2 2 6 6 2</u> <u>Email</u> <u>Phone</u>
Property Owner Identify the deeded property owner. If there was a recent change of ownership, documentation such as a deed or settlement sheet will be required.	3	Prosperian Property Management <input type="checkbox"/> Check box if new owner is being listed <u>Name</u> 222 Church Street, Philadelphia, PA 19106 <u>Address</u> prosperianpm@gmail.com <u>2 6 7 6 0 6 7 1 5 1</u> <u>Email</u> <u>Phone</u>
Design Professional in Responsible Charge Identify the PA- licensed design professional who is legally responsible.	4	Brian LaBrose Set Rite Corp <u>Name</u> <u>Firm</u> <u>PA License #</u> <u>Phila. Commercial Activity License #</u> blabrose@setrite.com <u>8 0 0 3 4 1 3 6 6 7</u> <u>Email</u> <u>Phone</u>
Project Scope Use this section to provide project details; all fields are mandatory. (a) Choose the proposed occupancy of the entire building. If not one- or two-family, provide a description of group(s) per code. (b) Identify if the project will be new construction, an addition, or interior/exterior alterations. (c) List the site area that will be disturbed by construction, if any. Enter 'zero' if no disturbance. (d) Note the new floor area created, including basements, cellars, and occupiable roofs. Where existing areas will be altered, list those areas separately. (e) State the number of new or affected stories. (f) Provide a detailed description of the work proposed. (g) Select all conditions that apply to this project (if any).	5	(a) Occupancy <input type="checkbox"/> Single-Family <input type="checkbox"/> Two-Family <input checked="" type="checkbox"/> Other, please describe: commercial space (b) Scope of Work <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Addition and/or Alteration <input type="checkbox"/> Shell (No Fit Out) – Option for Commercial Permits Only (c) Earth Disturbance <u>Area of Earth Disturbance</u> (Sq. Ft.) (d) Building Floor Areas <u>New Floor Area</u> (Sq. Ft.) <u>Existing Altered Area</u> (Sq. Ft.) (e) Number of Stories _____ (f) Description of Work <u>Installing a layer of clear polycarbonate shield over the existing windows on market street.</u> <u>Mounting will be flush with the wood frame of the windows. There will be a white capping around perimeter to aesthetically finish the install.</u> <u>The shields will have gore vents to prevent moisture from building up between the shield and glass window. The product is called DefenseLite.</u> (g) Project Conditions <input type="checkbox"/> Project Impacts Street/Right-of-Way <input type="checkbox"/> New High Rise <input type="checkbox"/> Green Roof Included <input type="checkbox"/> Modular Construction <input checked="" type="checkbox"/> Façade Work <input type="checkbox"/> Initial Fit Out of Newly Constructed Space

We are proposing to install the DefenseLite product on the outside of the 237 Market Street store front windows and glass door. After numerous break ins and riots last summer, there has been increased concern for security. While we do have cameras and an alarm, these would only work after a break in. This product would be placed over the windows and avoid windows breaking at all. This is an effort to increase safety and not have to board up windows in times of distress. This solution is much more visibly appealing than any kind of gates or shutters.

The application will be outside and it will be a layer of polycarbonate shields. The polycarbonate shields are clear and do not have any tint. Due to the design of the wood around the two windows, we would use a metal filler strip to make our mounting surface flush with the rest of the wood. We would then install the polycarbonate shields and add a white capping around the perimeter of the new window to aesthetically finish off the installation. The polycarbonate shields will have gore vents to prevent moisture from building up in-between the shields and the glass.

Lovely

237

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Would not be installed at transoms



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MASKS ARE REQUIRED

AT ALL TIMES
MASK MUST COVER
NOSE AND MOUTH



Please respect the safety of our staff and clients. Keep your mask on at all times while in our store. Please stay socially distant when possible.

THANKS,

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#1 Retrofit Safety Glazing Installation Company in the U.S.

- Active Shooter Mitigation
- Forced Entry Prevention
- Ballistic Glazing

When projects call for a professional security glazing installation company, trust WFD to deliver proven solutions based on your threat level and budget. Our solutions include safety and security films from 3M, DefenseLite security shields and BulletShield – the world's most dynamic anti-ballistic retro-fit glazing solution. Since 1992, WFD has been working hard to build a truly unique national business to serve its commercial and retail customers. Family owned and operated, we've been named the National Dealer of the Year by 3M and recognized by Window Film Magazine as the #1 window film dealer in the US for 2014, 2015, 2016 and 2018. Whether your project is local, regional or national, WFD can rapidly deploy installation teams to the biggest buildings, school systems or multiple retail locations. We guarantee to perform to the exacting standards of true professionals.

DEFENSELITE™
www.defenselite.com
info@defenselite.com

BULLET SHIELD™
www.bulletshield.com
info@bulletshield.com

3M Authorized Dealer
Window Film Products

WFD
America's Glass Enhancement Pros

21st Century Protection

WFD
America's Glass Enhancement Pros

Compare Security Window Films and Clear Security Shields



Security Window Film

Enhance Security
Increase Protection

What is Security Window Film?

Security window film is a clear surface applied window film engineered with a strong mechanically bonding adhesive. Designed to control glass failure, security window film provides similar performance as laminated glass at a fraction of the cost.

Why use Security Window Film?

An affordable entry level glass safety solution, security window film is designed to minimize the hazards associated with glass breakage due to windstorm, bomb blast or forced entry attack.

- Delay of entry
- Control glass failure
- Mitigate spontaneous glass breakage
- Provide for fragment retention

Who Uses Security Window Film?

Developed initially for the Department of Defense to protect from the hazards of glass failure as the result of bomb blast, security window films are used today throughout the public and private sector. School systems utilize security window films to provide for a layer of defense for ground level windows to deter active shooters. Retailers use security window films to protect against smash and grab crime. Homeowners utilize security window films to protect against forced entry through window and door glass.

Clear Security Shields

DefenseLite – Advanced Forced Entry Protection

A patented technology, DefenseLite is a 'clear security shield' that installs over existing window and door glass creating a layer of protection designed to 'keep the bad guys out'. DefenseLite is 250 times stronger than glass, nearly invisible once installed and an affordable solution that works. Utilizing proprietary high-optic UV coated polycarbonate shields, multi-layer thin films and tough structural adhesives and anchors, DefenseLite is an engineered solution that combines the best of materials science with an easy to retrofit installed solution.

VANDALISM THREATS

- Protect your brand
- Stop criminals outside
- No entry, no harm

SMASH AND GRAB THREATS

- Prevent forced entry
- Protect your inventory
- Don't be a victim

BALLISTIC THREATS

- Protect your people
- Keep active shooters outside
- UL 752 rated



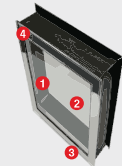
BulletShield – Retrofit Ballistic Glazing Security

Dubbed "Body Armor for Windows," BulletShield – the bullet-resistant version of DefenseLite – is rated to UL 752 ballistic standards. BulletShield clear Shields are custom engineered to fit your window or door opening and are available in escalating levels of protection to meet your threat conditions (UL Level 1-7)

- Protects the most targeted areas of a glazing system - the glass
- Mounts onto existing window and door frames
- Custom-extruded aluminum frame creates standoff to protect the original glass
- Engineered to flex under attack, keeping bullets and bad guys out

Who benefits from BulletShield and DefenseLite?

- Schools
- Government Buildings
- Commercial, Hotels, Hospitals
- Police and Law Enforcement
- High Security Targets



Anatomy of Clear Security Shield Systems

- 1 Proprietary DefenseLite extrusion attaches to the existing glazing frame and separates clear shield from primary glass
- 2 "Unbreakable" clear shield is affixed to the extrusion
- 3 DefenseLite 'Super Bond' secures the system to the existing glazing
- 4 Customized edge banding and powder coating makes system virtually invisible upon installation

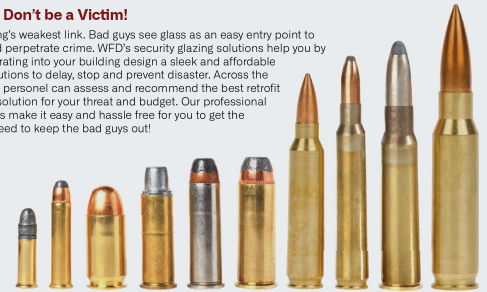
Each system is custom fabricated based on existing glazing conditions and installed by certified installers. Systems may utilize exotic plastics, polycarbonates and glass-clad shields depending on threat conditions and budgets. All-weather adhesives, high-performance films, mechanical anchors and other materials may be used, shields install on the exterior or interior of existing windows and doors. Systems have been independently tested to meet forced entry and UL752 ballistic standards.



	3M Authorized Dealer Window Film Products	DEFENSELITE™	BULLET SHIELD™
Vandalism	Better	Best	NA
Small Objects (Rocks)	Better	Best	NA
Blunt Objects (Hammer)	Better	Best	NA
Smash & Grab	Better	Best	NA
Riot Mitigation	Better	Best	NA
Firearms	Good	Better	Best
Explosion	Good	Better	Best
Ballistic Security	Good	Better	Best

Take Action! Don't be a Victim!

Glass is a building's weakest link. Bad guys see glass as an easy entry point to cause chaos and perpetrate crime. WFD's security glazing solutions help you by seamlessly integrating into your building design a sleek and affordable set of retrofit solutions to delay, stop and prevent disaster. Across the US, WFD trained personnel can assess and recommend the best retrofit glazing security solution for your threat and budget. Our professional installation teams make it easy and hassle free for you to get the protection you need to keep the bad guys out!



DefenseLite and BulletShield systems are custom designed to meet your threat level. Systems are engineered and installed across the US for forced entry mitigation, containment grade protections as well as UL Levels 1-7 for ballistic performance.

What is DefenseLite?



DefenseLite is the 'flexible' and 'vented' overglaze security solution. A patented technology, DefenseLite is a 'clear security shield' that installs over existing window and door glazing creating a layer of protection designed to 'keep the bad guys out'. DefenseLite shields are 250 times stronger than glass, nearly invisible once installed and a long-term forced-entry solution that works. Utilizing proprietary high-optic UV coated polycarbonate shields, patented vented extrusions, multi-layer thin films and tough structural adhesives and flexible security tipped anchors, DefenseLite is an engineered system that combines the best of materials science with an easy to retrofit installed solution.

What makes DefenseLite a superior 'overglaze' security solution for windows and door glass?



Better quality components and superior mechanical and thermal engineering separates DefenseLite from less expensive competitor systems. DefenseLite is a patented 'flexible' and 'vented' overglaze system that provides for unmatched resilience under robust attack. Our patent pending venting system protects customers from longer-term condensation and moisture related issues inherent in hermetically sealed, non-vented, field installed overglaze systems.

Why a 'vented' overglaze system is critical for the long-term system integrity?



In field conditions, it is not advisable to hermetically seal the air space between over-glazing and the prime window. Why? It won't work. The only time 'sealed airspaces' work is in factory sealed, dehydrated insulating glass units. These 'sealed IG units' are built in controlled, factory conditions. To address this properly, DefenseLite overglaze systems utilize our patent pending 'engineered ventilation' behind the field installed overglaze.

This passive design is 'tuned' for the local climate conditions and usage. The DefenseLite 'engineered venting' system basically dries out the air behind the overglaze on an ongoing, dynamic basis leading to a low likelihood of longer-term condensation or moisture issues. Less expensive, non-vented overglaze systems will experience moisture and condensation issues once the desiccant entombed in the framing system becomes saturated leading to an expensive fix for the building owner down the road.

What is 'Engineered Ventilation' and why is this critical to system integrity?



Each DefenseLite system is engineered for the local climate and usage so that the airspace behind the overglaze is ventilated to the adjacent space that is predicted to be drier at the most critical times of the year. Then, a precisely calibrated array of passive vents, based upon the premise of Boyle's Law, are deployed to make the magic happen, keeping your overglaze system condensation free for the long-term.

Will 'desiccant only' systems work to mitigate moisture and condensation over the long term?



No. Field installed overglaze systems create a new airspace that requires airflow to mitigate condensation buildup in the newly created void. Without proper airflow, moisture will build up and create problems for the customer in many climate zones over time. 'Desiccant only' moisture control systems will eventually fail to control the condensation once the desiccant is exhausted and overwhelmed leading to foggy, unattractive windows and doors that will be very expensive to fix down the road.

Why a 'flexible' system is important for maximum protection from forced entry?



Each component in a DefenseLite system is designed to 'flex' under significant force from robust attack. As the DefenseLite system 'flexes' while absorbing impact, energy is dissipated evenly throughout the overglaze providing for increased performance over competitor's less expensive, rigid and fixed designs. DefenseLite overglazing is like a Zen Master. It doesn't attempt to ward off intruders like a brick wall. Instead, it flexes and absorbs the impact, dissipating the forces harmlessly out to the edges of the panel. Without breaking, tearing or detachment. Bad guys get frustrated with our flexible resistance and soon move on to a more vulnerable victim.

How does DefenseLite control the “pillowing” effect prevalent in other plastic glazing solutions?



‘Pillowing’, or ‘bowing’ prevalent in some plastic glazing creates unsightly distortion and ‘fun house’ mirror effects. Pillowing occurs when thermal (solar heat) buildup creates a condition where the plastic glazing expands, or ‘pillows out’ due to increased barometric air pressure and thermal expansion. The patent pending “Moore” venting system engineered into DefenseLite allows for dynamic airflow from the newly created airspace to an open space alleviating the increased air pressure caused by solar heat gain. The DefenseLite overglaze is flexible and super strong. Like all polycarbonate, the sheet tends to grow when it gets warmer. When plastic over-glaze “pillows” within a fixed rigid frame, it is because it is trying to grow – but it can’t – so it bulges out instead. DefenseLite’s engineered ventilation keeps the panel ‘cooler’ so it grows less, eliminates the pressure and allows the panel to float at all edges. Result: No unsightly bulge!

How are DefenseLite polycarbonates unique from commercial polycarbonate sheets available to everyone else?



Impact Security has a special relationship and a unique specification for its polycarbonate sheets used to make the DefenseLite shields. Manufactured in the US by the leading manufacturer of plastic substates in the world, Plaskolite, DefenseLite’s proprietary polycarbonate specification guarantees our customers enjoy the most optically clear, black spec- free, low-distortion, UV capped sheets available anywhere in the world.

Will the DefenseLite polycarbonate yellow from sun exposure?



DefenseLite polycarbonate sheets are “UV capped” and warranted against yellowing for a minimum of 7 years. Many DefenseLite systems incorporate a secondary layer of UV protection with the application of a thin film laminate primarily designed for sacrificial surface protection.

What are the largest openings that can be covered with DefenseLite without a seam?



DefenseLite offers the largest single sheet high optic UV coated polycarbonate in the world. Made to our exacting and unique Plaskolite specification for optical clarity and durability, our single sheets can be as large as 156” x 96” and perfect for oversized windows found in urban retail centers and showrooms across the US.

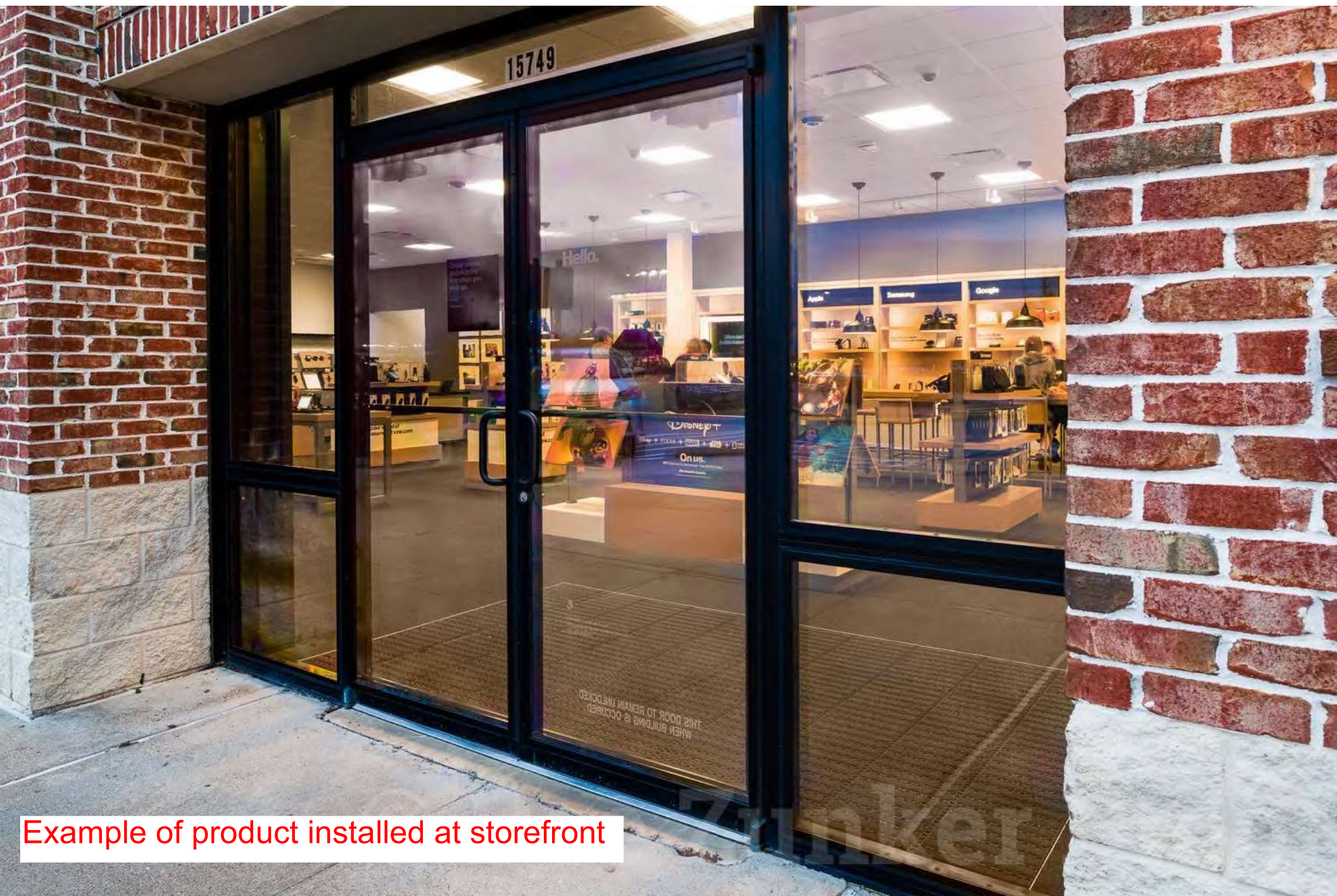
How is DefenseLite Installed?



DefenseLite is installed over your existing window and door glazing by certified dealer/installers. Mounted and anchored onto the exterior or interior of your existing glazing, DefenseLite affixes to your window or door frames creating an airspace between the primary glass and the DefenseLite clear shield. A weather sealed and vented system that mitigates any ‘pillowing’ or condensation buildup, DefenseLite is custom made for every opening and designed to blend into the existing framing for a clean, finished look. DefenseLite is nearly invisible upon a completed installation, has no moving parts or long-term serviceable items.

Example of product
installed at storefront





Example of product installed at storefront

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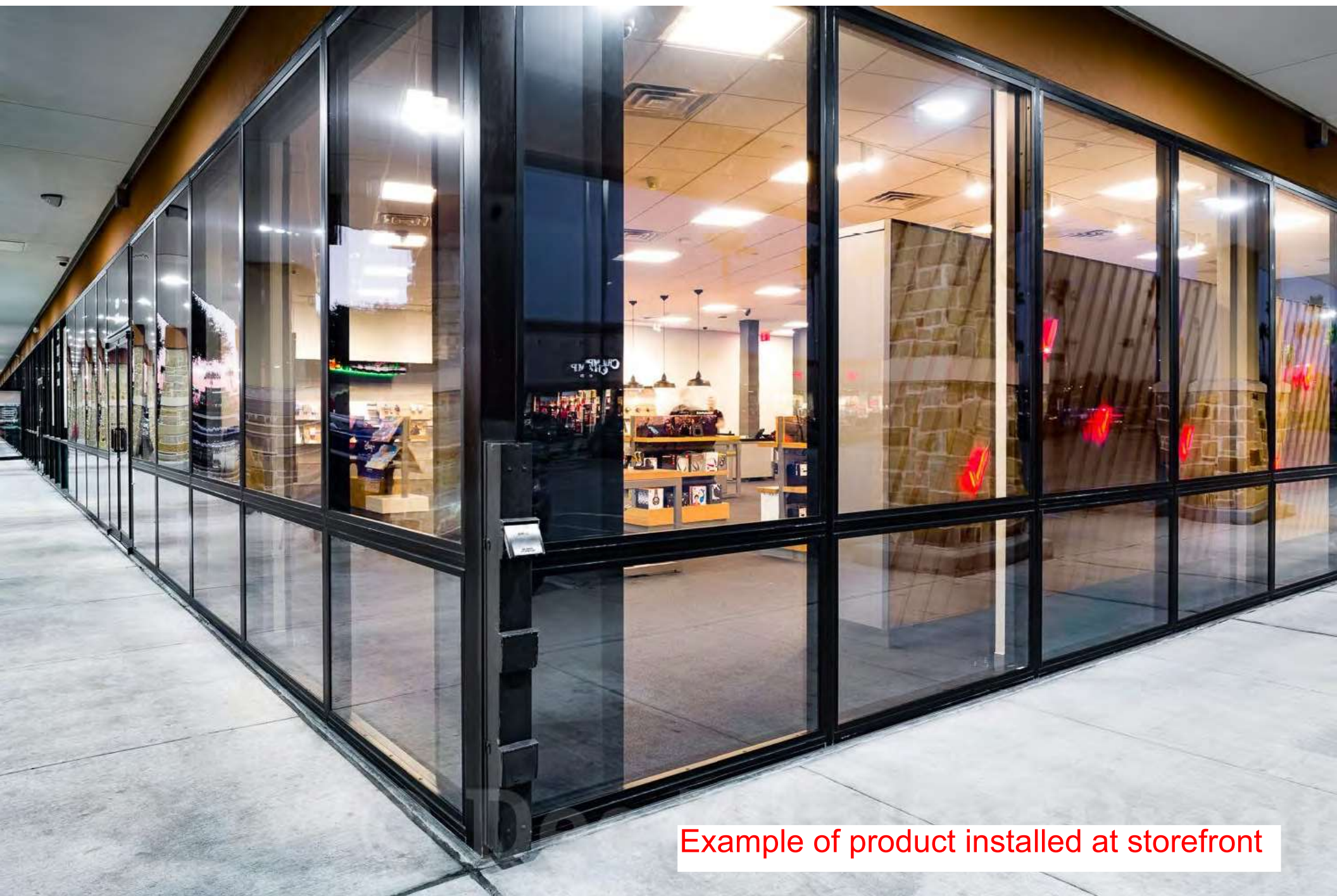




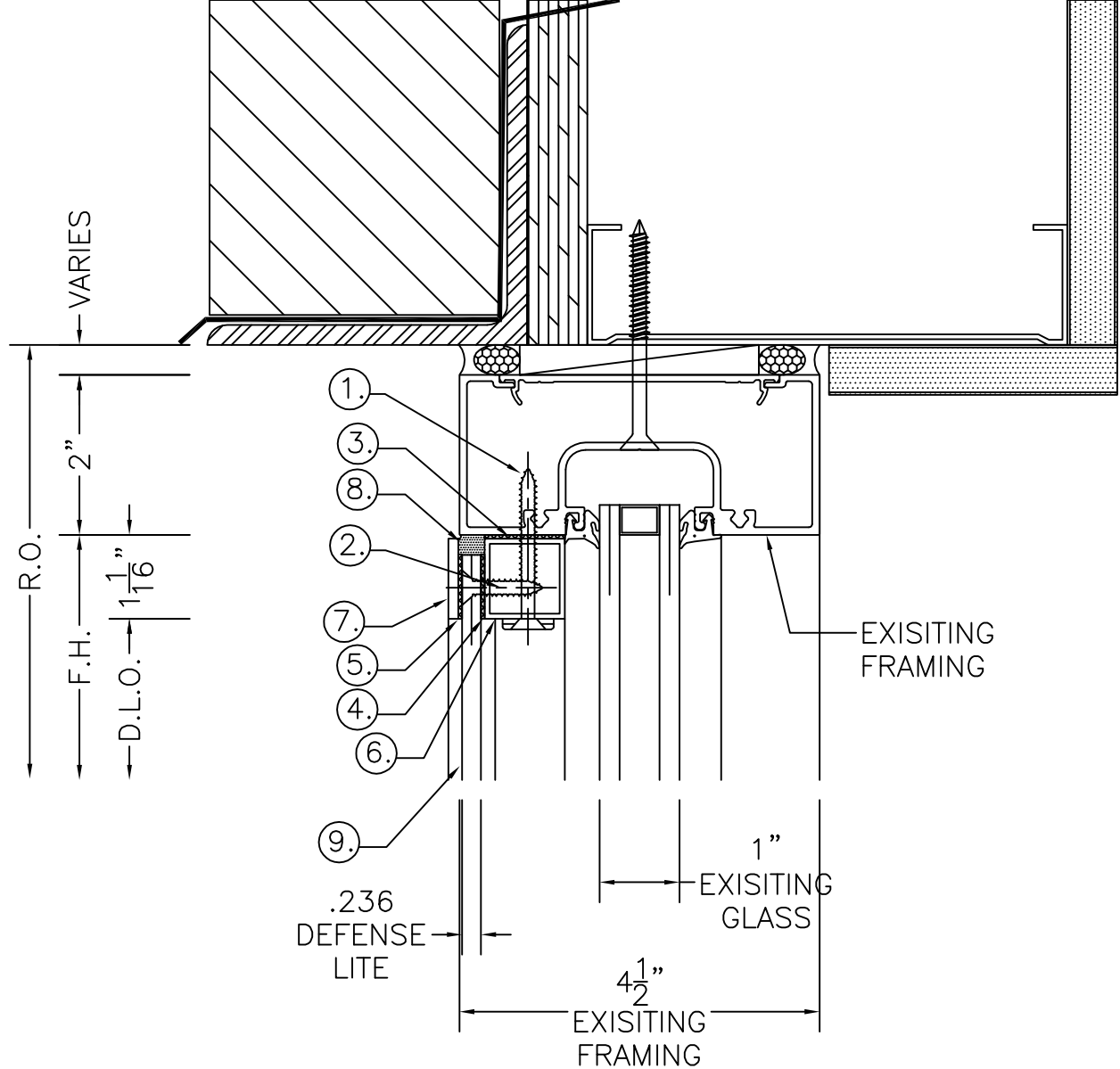
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Example of product
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Example of product installed at storefront



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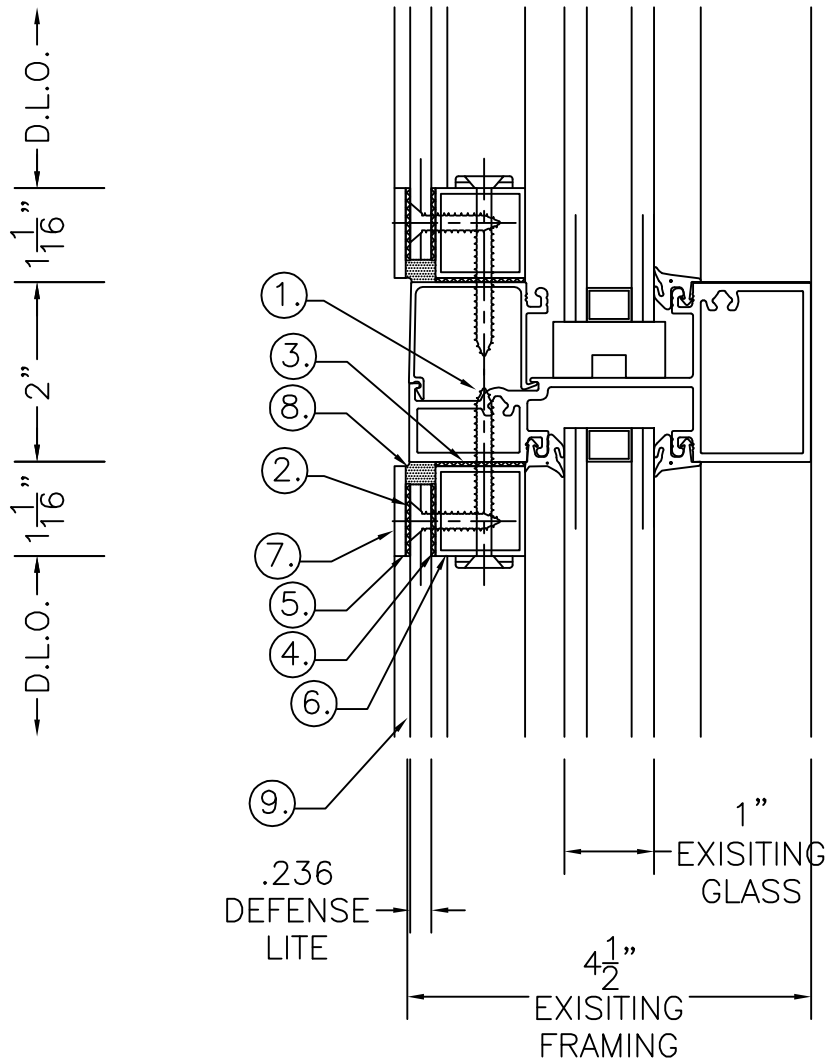
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6" O.C FOR THE HIGH CRIME SYSTEM.
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6 " O.C. FOR THE HIGH CRIME SYSTEM.
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Generic section dwg

1 HEAD
ARCH. DETAIL REF.:
ARCH. SHEET REF.:

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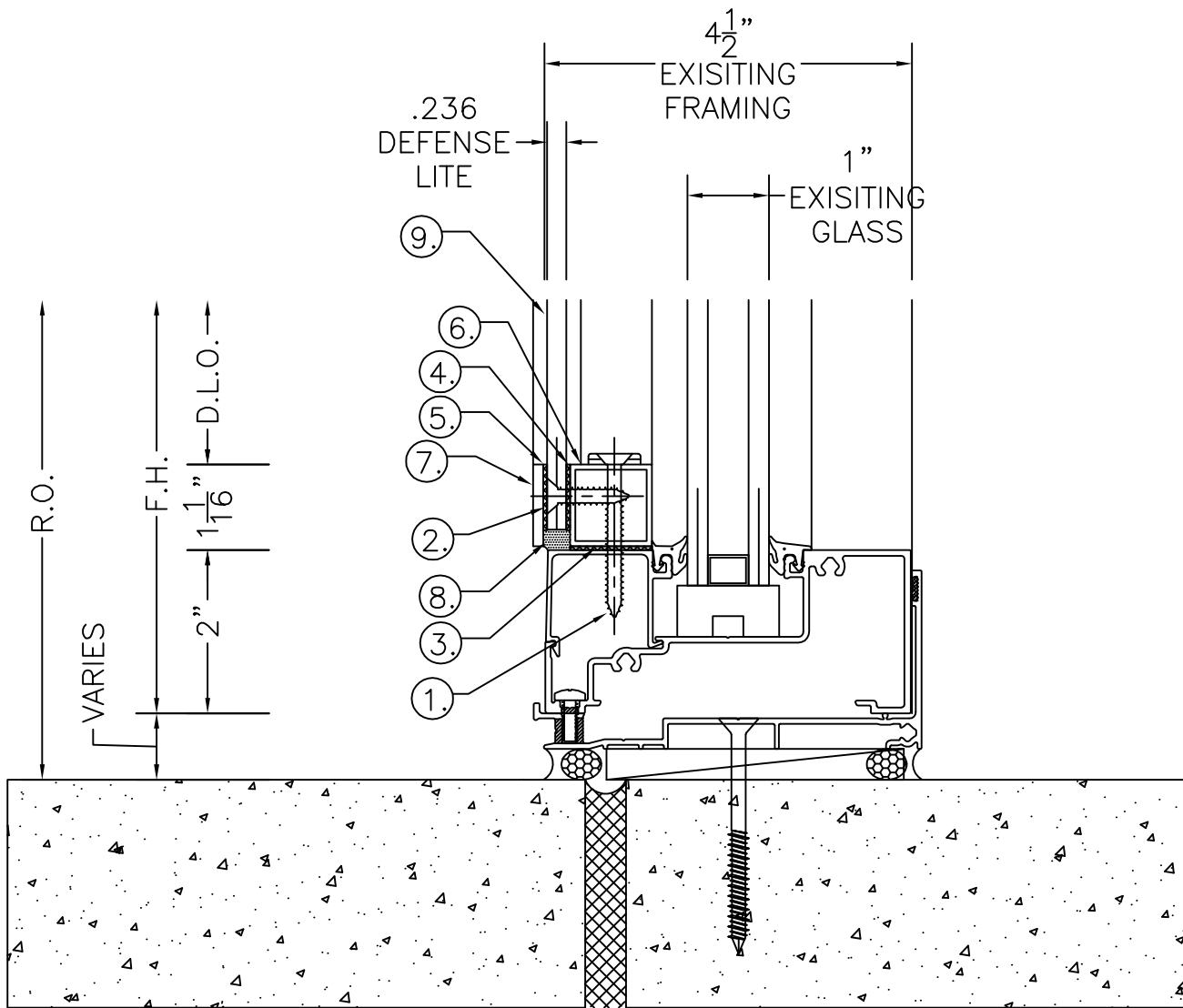
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2 HORIZONTAL
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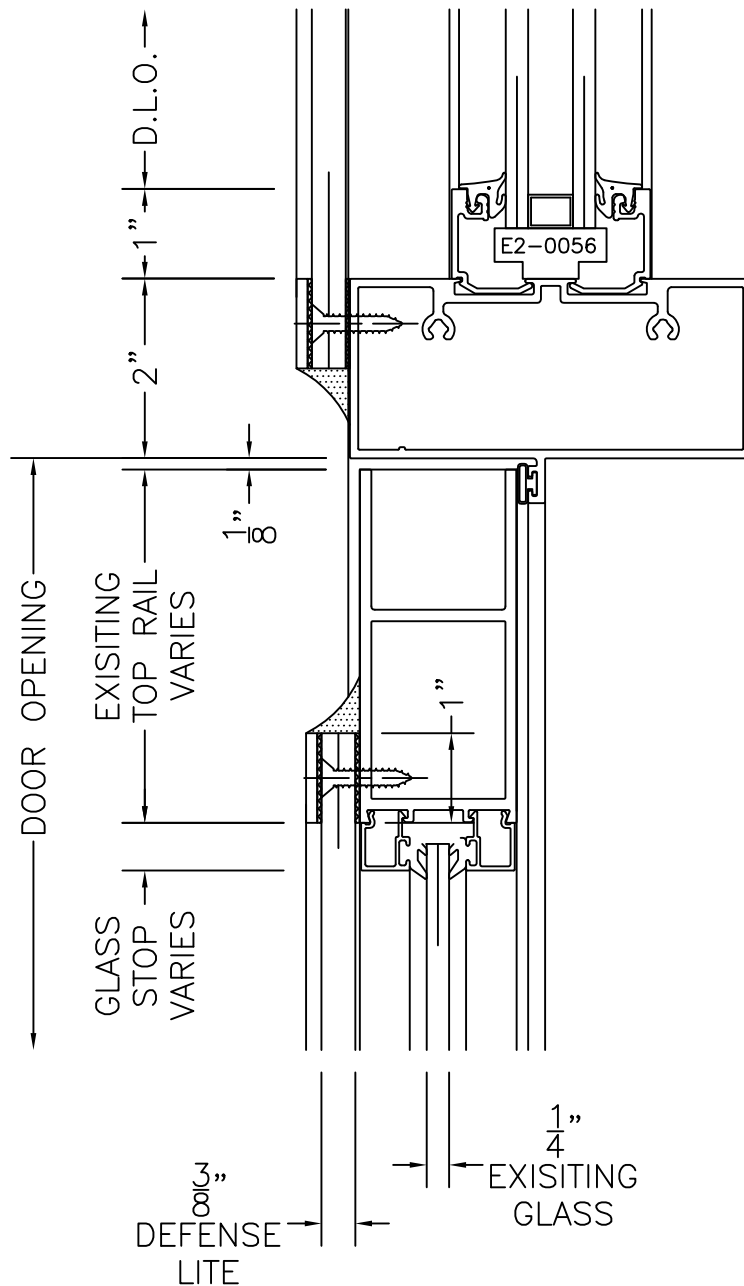
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3 SILL
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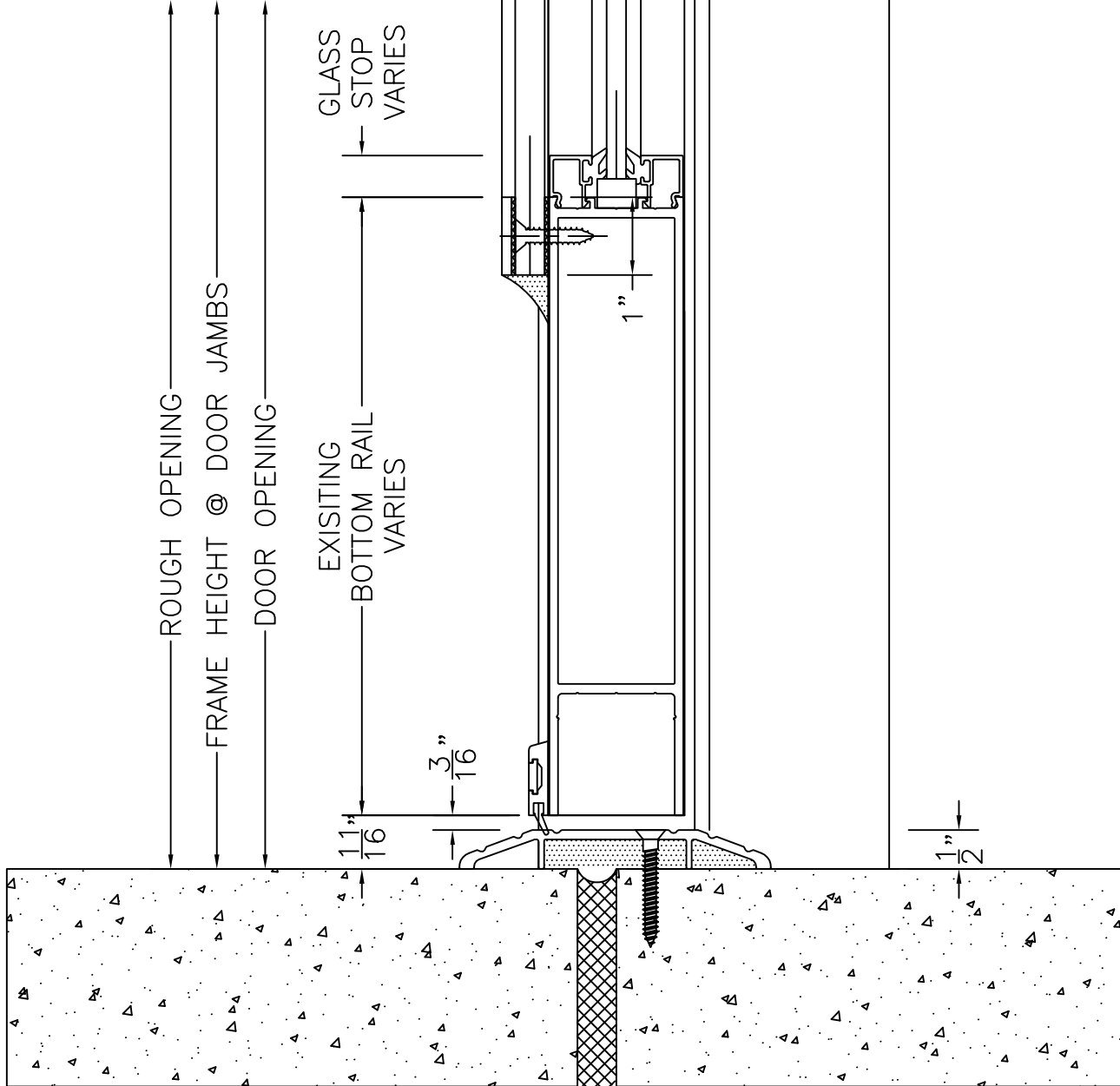
TRANSOM BAR

4

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DOOR THRESHOLD

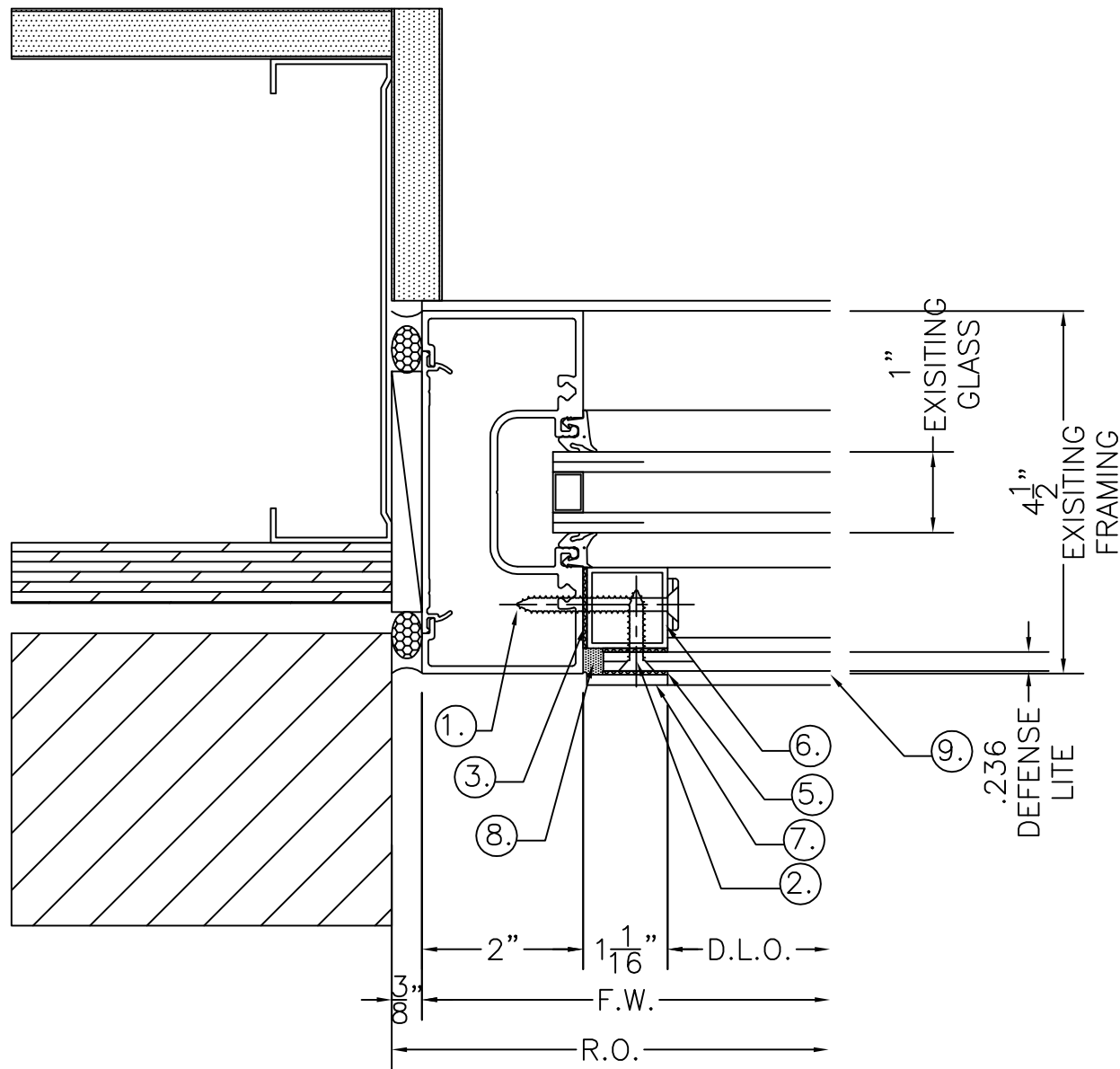
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JAMB

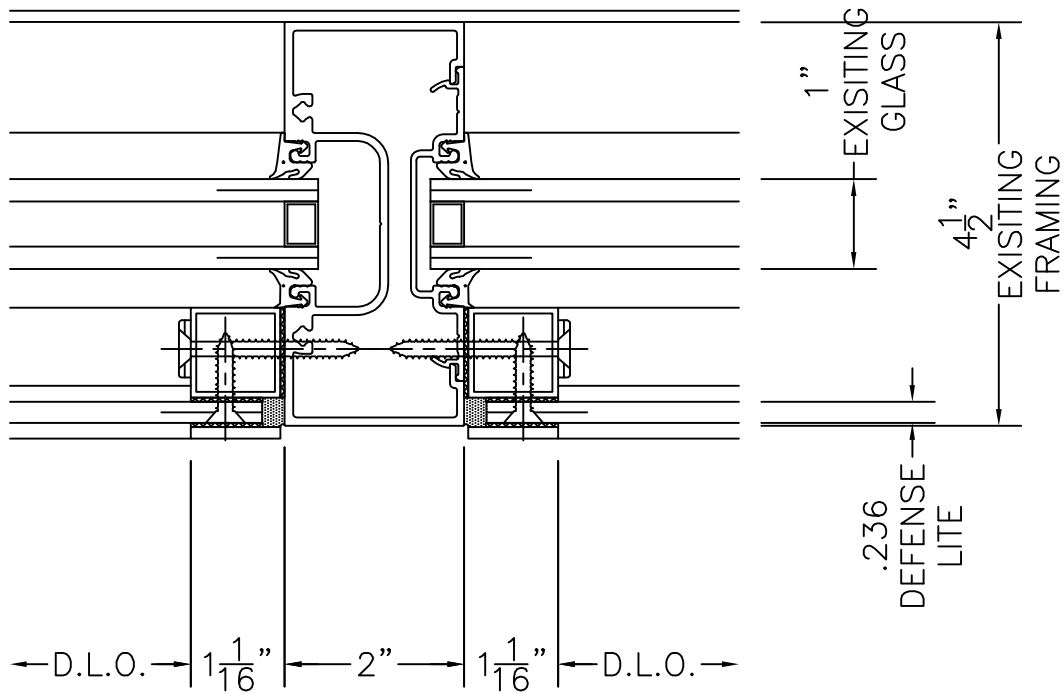
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6" O.C. FOR THE HIGH CRIME SYSTEM.
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- ③ 1" WIDE HIGH BOND TAPE
1" TUBE TO EXISTING FRAMING.
- ④ 3/4" WIDE HIGH BOND TAPE
1" TUBE TO NEW .236 DEFENSE LITE.
- ⑤ 3/4" WIDE HIGH BOND TAPE
NEW 1" FLAT BAR TO NEW .236 DEFENSE LITE.
- ⑥ 1" x 1" x .063 (6063) ALUM. TUBE
1" x 1" x .125 (6063) ALUM. TUBE OPTIONAL
- ⑦ 1" x .125 (6061) FLAT ALUM. BAR
- ⑧ DOW 995 PERIMETER SEALANT
- ⑨ .236 DEFENSE LITE



PARTS DESCRIPTION

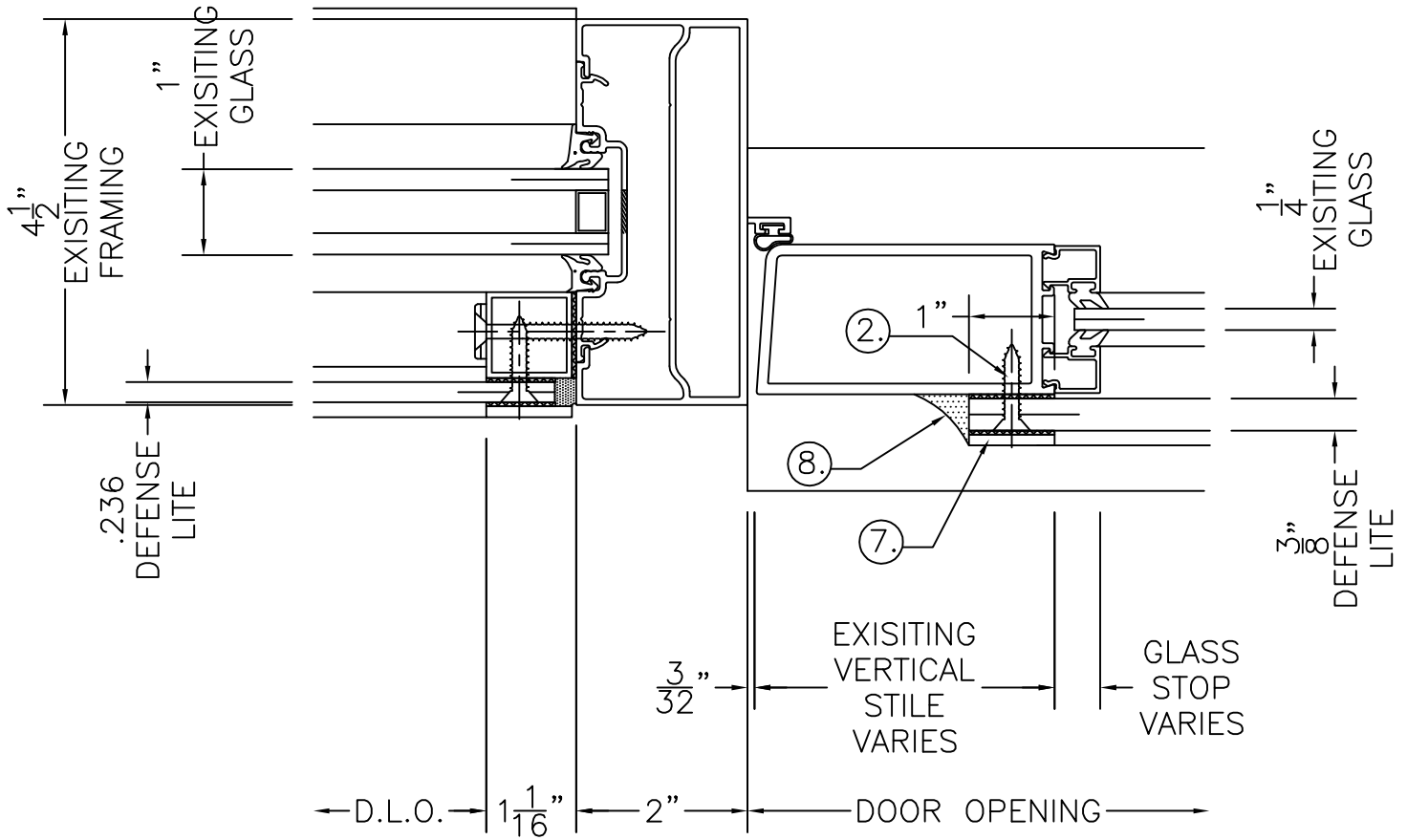
- ① #12 x 2" S.S. WITH SECURITY TIP & CSK WASHER
4" FROM EACH END & 12" O.C FOR STANDARD SYSTEM.
6" O.C FOR THE HIGH CRIME SYSTEM.
- ② #12 x 1" S.S. WITH SECURITY TIP
3" FROM EACH END & 12" O.C. FOR STANDARD SYSTEM.
6 " O.C. FOR THE HIGH CRIME SYSTEM.
REQUIRES $\frac{1}{4}$ " HOLE DRILLED IN .236 DEFENSE LITE.
- ③ 1" WIDE HIGH BOND TAPE
1" TUBE TO EXISTING FRAMING.
- ④ $\frac{3}{4}$ " WIDE HIGH BOND TAPE
1" TUBE TO NEW .236 DEFENSE LITE.
- ⑤ $\frac{3}{4}$ " WIDE HIGH BOND TAPE
NEW 1" FLAT BAR TO NEW .236 DEFENSE LITE.
- ⑥ 1" x 1" x .063 (6063) ALUM. TUBE
1" x 1" x .125 (6063) ALUM. TUBE OPTIONAL
- ⑦ 1" x .125 (6061) FLAT ALUM. BAR
- ⑧ DOW 995 PERIMETER SEALANT
- ⑨ .236 DEFENSE LITE

Generic section dwg

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9 DOOR JAMB
 ARCH. DETAIL REF.:
 ARCH. SHEET REF.:

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PARTS DESCRIPTION

- ① #12 x 2" S.S. WITH SECURITY TIP & CSK WASHER
 4" FROM EACH END & 12" O.C. FOR STANDARD SYSTEM.
 6" O.C. FOR THE HIGH CRIME SYSTEM.
- ② #12 x 1" S.S. WITH SECURITY TIP
 3" FROM EACH END & 12" O.C. FOR STANDARD SYSTEM.
 6" O.C. FOR THE HIGH CRIME SYSTEM.
 REQUIRES 1/4" HOLE DRILLED IN .236 DEFENSE LITE.
- ③ 1" WIDE HIGH BOND TAPE
 1" TUBE TO EXISTING FRAMING.
- ④ 3/4" WIDE HIGH BOND TAPE
 1" TUBE TO NEW .236 DEFENSE LITE.
- ⑤ 3/4" WIDE HIGH BOND TAPE
 NEW 1" FLAT BAR TO NEW .236 DEFENSE LITE.
- ⑥ 1" x 1" x .063 (6063) ALUM. TUBE
 1" x 1" x .125 (6063) ALUM. TUBE OPTIONAL
- ⑦ 1" x .125 (6061) FLAT ALUM. BAR
- ⑧ DOW 995 PERIMETER SEALANT
- ⑨ .236 DEFENSE LITE