



Staff Report - Certificate of Appropriateness Application

Knoxville Historic Zoning Commission

File Number: 2-A-20-HZ

PROPERTY LOCATION: 604 S. Gay St. / Parcel ID 95 I F 002

DISTRICT: Tennessee Theatre Individual H Landmark

MEETING DATE: 2/20/2020

APPLICANT: Whitney Manahan McCarty Holsaple McCarty

LEVEL OF WORK: Level II. Construction of addition or outbuilding

PROPERTY DESCRIPTION: Renaissance Revival, c.1908 & c.1928

The Burwell Building and the Tennessee Theatre form a building complex, with the construction date of the Burwell (1907-1908) preceding the Tennessee Theatre (1928) by approximately twenty years. The Burwell Building is a Renaissance Revival-style, ten-story plus mezzanine and basement, office building. The Gay Street façade (west elevation) is seven bays wide, with the additional four bays added in 1928 with the construction of the Tennessee Theatre. A large auditorium section fronts Clinch Avenue and State Street.

► **DESCRIPTION OF WORK:**

Construction of an addition connecting the southwest elevation of the Tennessee Theatre's auditorium space with the rear (northeast) elevation of 612 S. Gay Street. The six-story addition will serve to connect the two buildings and provide egress and stair access. The addition will only be structurally connected to the Theatre at the parapet wall, and connect to the Theatre exterior via expansion joints at floors two and three. Two new openings will be created in the masonry on the auditorium's southwest elevation on floors two and three. These openings will allow for two sets of double doors providing access to the stairwell.

The addition will have a flat roof with a parapet wall, an exterior of corrugated metal siding, and a narrow, insulated translucent wall panel extending the length of the addition adjacent to the Theatre wall.

The addition will not be visible from the public right-of-way.

► **APPLICABLE DESIGN GUIDELINES:**

Secretary of the Interior's Standards for Rehabilitating Historic Buildings.

2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize a property will be avoided.
3. Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.
5. Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that



Staff Report - Certificate of Appropriateness Application

Knoxville Historic Zoning Commission

File Number: 2-A-20-HZ

characterize a property will be preserved.

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 will 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.

10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

COMMENTS:

N/A

STAFF FINDINGS:

1. Constructed to serve as a stairwell and method of access between 612 S. Gay Street and the Tennessee Theatre, the addition is proposed to be placed in a narrow open space between the rear (northeast) elevation of 612 S. Gay Street and the southwest elevation of the Theatre's auditorium space. The proposed addition will not be visible from Gay Street or Clinch Avenue; the placement of the stairwell addition is appropriate.

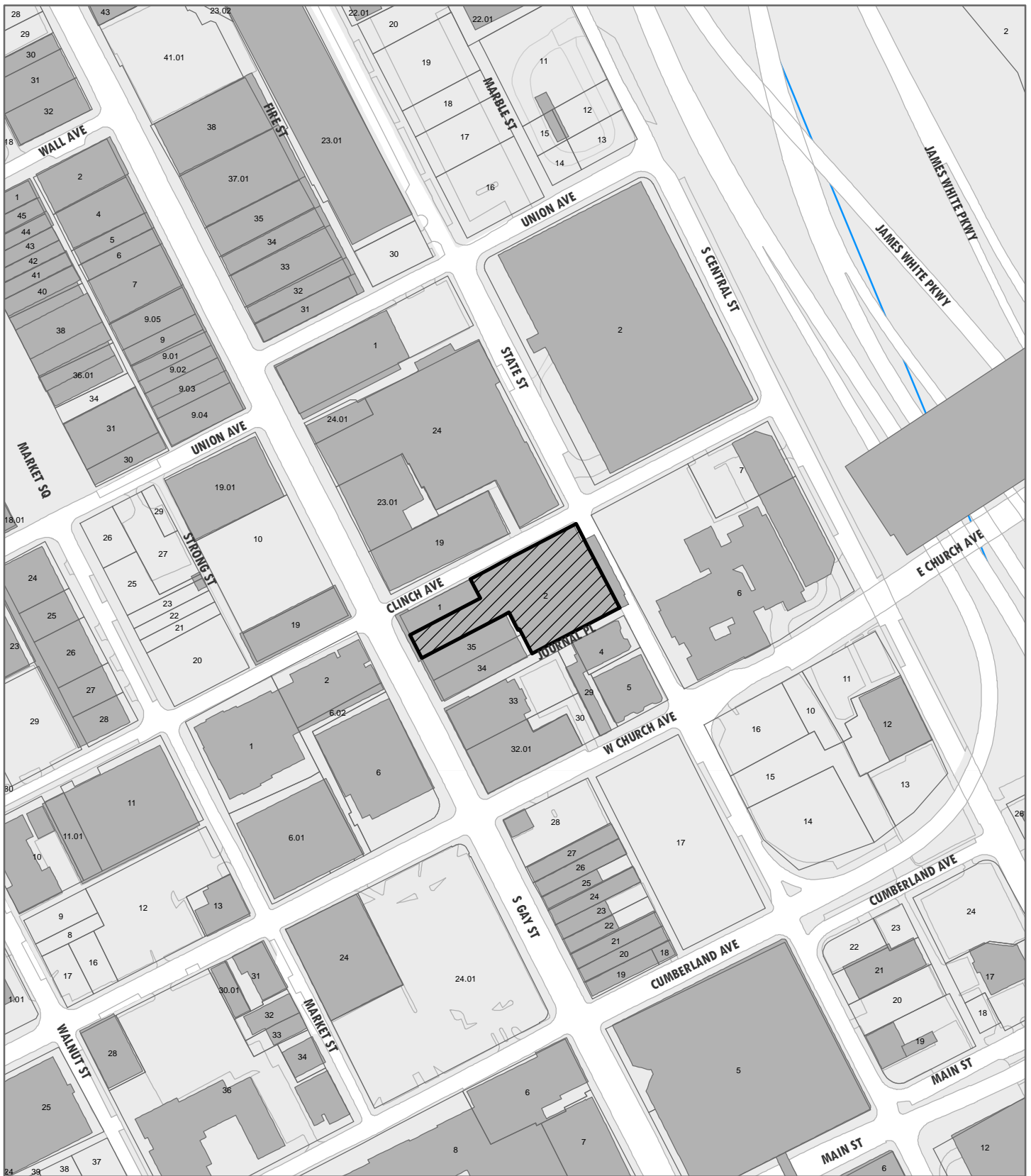
2. By necessity, the addition is narrow in massing and scaled to match the heights of 612 S. Gay Street and the Tennessee Theatre. While the addition is one story taller than the Theatre's auditorium, the addition's height reflects the rear elevation of 612 S. Gay Street. Overall, the addition is subordinate in size to both the Tennessee Theatre and 612 S. Gay Street. The height, scale, and massing of the stairwell addition are appropriate for the historic structure.

3. The proposed addition will be clad in a corrugated metal panel, with an insulated translucent wall panel between the addition and the Tennessee Theatre's southwest wall. The proposed materials serve to differentiate the addition from the historic building. The addition will not be visible from the public right-of-way. The addition's materials and design will not detract from the Theatre's historic integrity.

4. The addition will connect to a hidden, non-character-defining elevation of the Tennessee Theatre, which is currently a brick wall with one basement-access door. The addition will only be structurally tied to the Tennessee Theatre at the highest level, at the parapet wall. Two new fenestrations will be created on the Theatre's southwest elevation, to provide access at the second and third stories. The proposed addition will not affect any character-defining features of the Tennessee Theatre.

► STAFF RECOMMENDATION:

Staff recommends approval of the work as proposed.



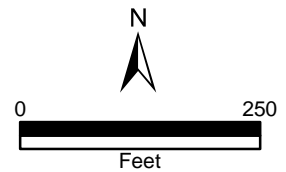
2-A-20-HZ
APPLICATION FOR CERTIFICATE OF APPROPRIATENESS



604 S. Gay St. 37902
Tennessee Theatre Individual H Landmark

Original Print Date: 2/10/2020
 Knoxville/Knox County Planning -- Historic Zoning Commission

Petitioner: Whitney Manahan McCarty
 Holsaple McCarty





DESIGN REVIEW REQUEST

- DOWNTOWN DESIGN (DK)
- HISTORIC ZONING (H)
- INFILL HOUSING (IH)

Tennessee Theatre Expansion_ 612 Gay Street

Applicant

02/03/2020

2/20/2020

2-A-20-HZ

Date Filed

Meeting Date (if applicable)

File Number(s)

CORRESPONDENCE

All correspondence related to this application should be directed to the approved contact listed below.

- Owner Contractor Engineer Architect/Landscape Architect

Whitney Manahan

McCarty Holsaple McCarty

Name

Company

550 W Main Street Suite 300

Knoxville

TN

37902

Address

City

State

Zip

865-544-2000

wmanahan@mhminc.com

Phone

Email

CURRENT PROPERTY INFO

Historic Tennessee Theatre Foundation

604 S GAY ST

865.684.1200

Owner Name (if different from applicant)

Owner Address

Owner Phone

604 S GAY St

095IF002

Property Address

Parcel ID

Central City

DK-H

Neighborhood

Zoning

AUTHORIZATION


Staff Signature


Please Print


Date


Applicant Signature

Whitney Manahan
Please Print

1/31/2020
Date

REQUEST

DOWNTOWN DESIGN

Level 1:

- Signs Alteration of an existing building/structure

Level 2:

- Addition to an existing building/structure

Level 3:

- Construction of new building/structure Site design, parking, plazas, landscape

See required Downtown Design attachment for more details.

- Brief description of work:

HISTORIC ZONING

Level 1:

- Signs Routine repair of siding, windows, roof, or other features, in-kind; Installation of gutters, storm windows/doors

Level 2:

- Major repair, removal, or replacement of architectural elements or materials Additions and accessory structures

Level 3:

- Construction of a new primary building

Level 4:

- Relocation of a contributing structure Demolition of a contributing structure

See required Historic Zoning attachment for more details.

- Brief description of work: Most infilled windows will be opened up. All windows will be replaced to match historic configurations as closely as possible.

All stone and brick will be repaired and repointed. New roofing, downspouts and gutters will be added. The front entry will be renovated to more closely match historic photos including, removing the canvas awning, adding life at the entry, removing the modern storefront and adding a wood, glass and metal door based on historic photos that meets current codes.

INFILL HOUSING

Level 1:

- Driveways, parking pads, access point, garages or similar facilities Subdivisions

Level 2:

- Additions visible from the primary street Changes to porches visible from the primary street

Level 3:

- New primary structure
 Site built Modular Multi-Sectional

See required Infill Housing attachment for more details.

- Brief description of work:

STAFF USE ONLY

ATTACHMENTS

- Downtown Design Checklist
 Historic Zoning Design Checklist
 Infill Housing Design Checklist

FEE 1:

TOTAL:

FEE 2:

ADDITIONAL REQUIREMENTS

- Property Owners / Option Holders

FEE 3:

Level 1: \$50 • Level 2: \$100 • Level 3: \$250 • Level 4: \$500

19020

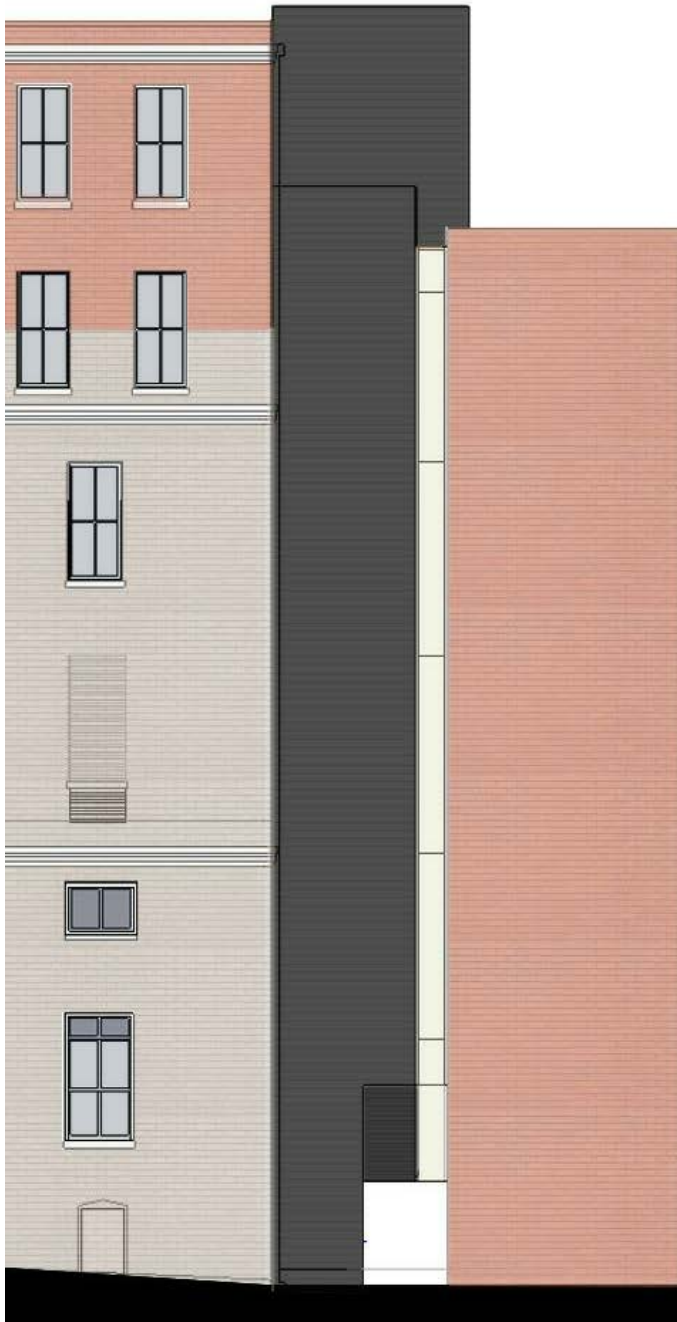
612 SOUTH GAY STREET RENOVATION

TENNESSEE THEATRE

612 South Gay St. Knoxville, TN

MODIFICATIONS TO 604 S GAY STREET

HISTORIC ZONING COMMISSION
02/20/2020





Project Information:

19020

612 SOUTH GAY STREET RENOVATION
 612 South Gay St. Knoxville, TN

Sheet

EARLY PRID PACKAGE NO. 1
 DEMOLITION & ENVELOPE REPAIR

**PRELIMINARY PACKAGE:
 NOT FOR
 CONSTRUCTION**

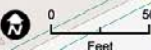
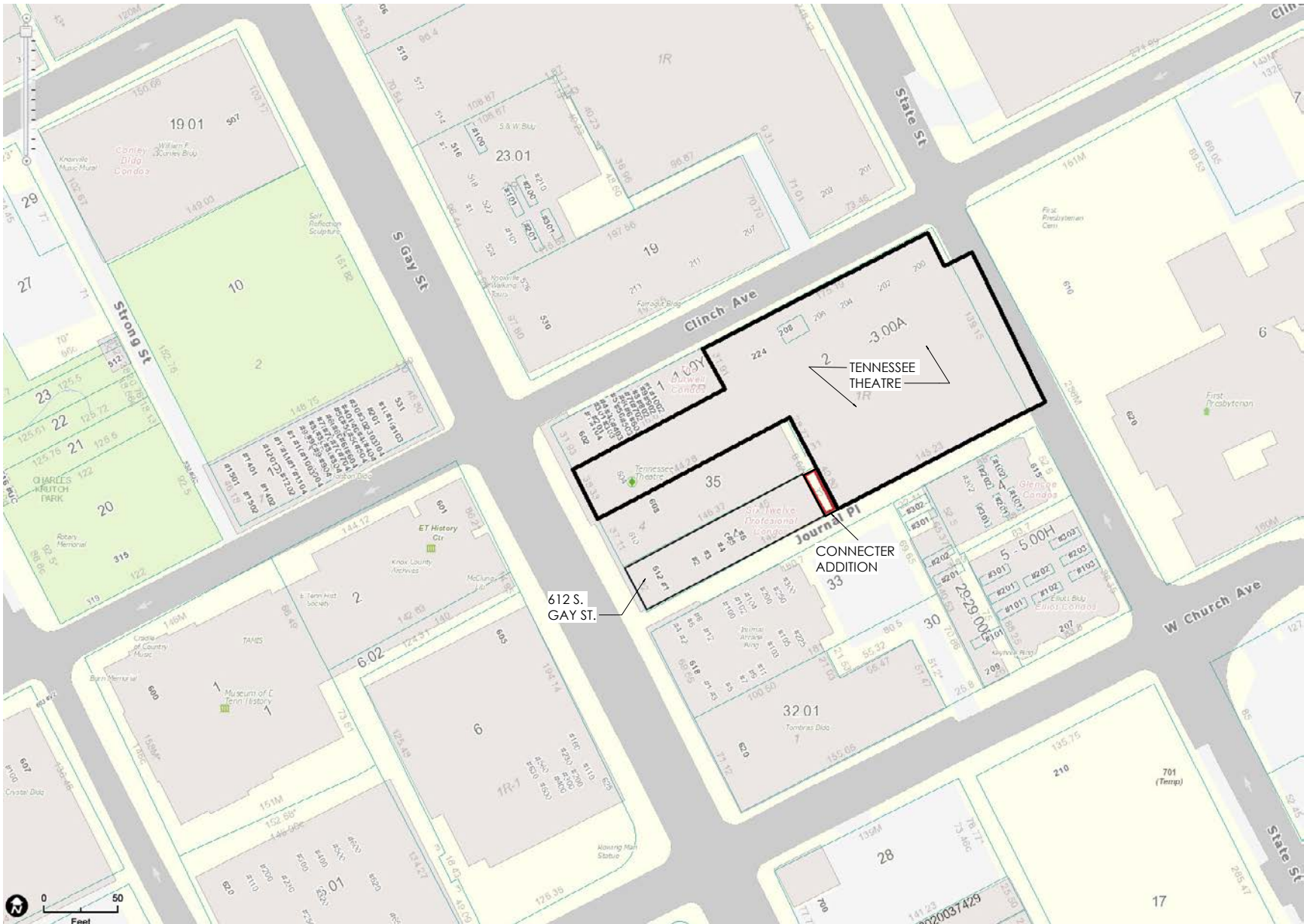
Consultant:

#	ISSUE	DATE

Issue Date: 02/09/2020
 PIC: MARGARET BUTLER
 PM: JASON MILLER
 PA: CHARLOTTE McELLENDOCK (JC Name)
 Drawn By: Author
 Checked By: Project Checked By
 Drawing Info:

AX000

SITE DIAGRAM





Project Information:
19020

612 SOUTH GAY STREET RENOVATION
 612 South Gay St. Knoxville, TN

Seal
 DESIGN DEVELOPMENT PACKAGE
 REFERENCE SHEET
 PRELIMINARY PACKAGE:
**NOT FOR
 CONSTRUCTION**

Consultant:

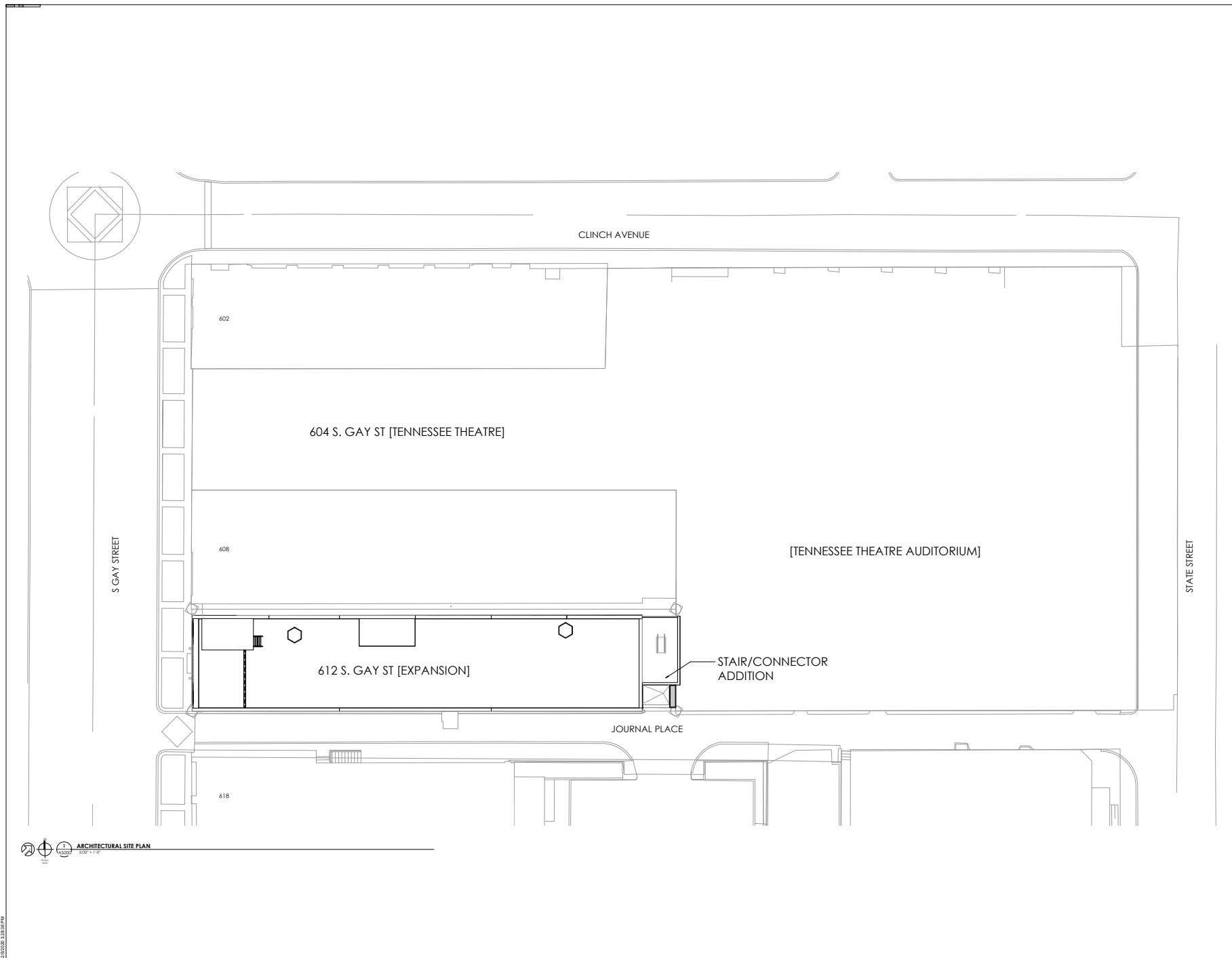
#	ISSUE	DATE

Issue Date:	02/12/2020
PI:	MARGARET BUTLER
PA:	AUSTON MILLER
Drawn By:	Author
Checked By:	Project Checked By
Project Checked By:	

Drawing Info:

AS000

ARCHITECTURAL SITE PLAN



ARCHITECTURAL SITE PLAN
 3/09" = 1'-0"

2/25/2020 11:28:30 AM



Project Information:
19020

612 SOUTH GAY STREET RENOVATION

612 South Gay St. Knoxville, TN

Seal

EARLY PBID PACKAGE NO. 1:
 DEMOLITION & ENVELOPE REPAIR

PRELIMINARY PACKAGE:
NOT FOR CONSTRUCTION

Consultant:

#	ISSUE	DATE

Issue Date: 02/09/2020
 PIC: MARGARET BUTLER
 PM: AUDON MILLER
 PA: CHARLOTTE McELLENDOCK / JC Name:
 Drawn By: Author
 Checked By: Project Checked By:

Drawing Info:
AX001

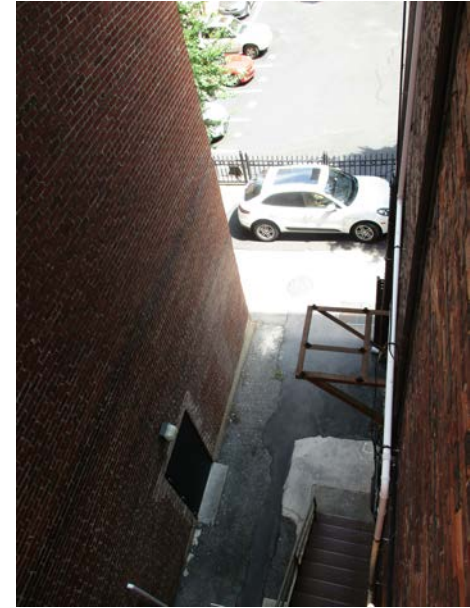
EXISTING CONDITIONS



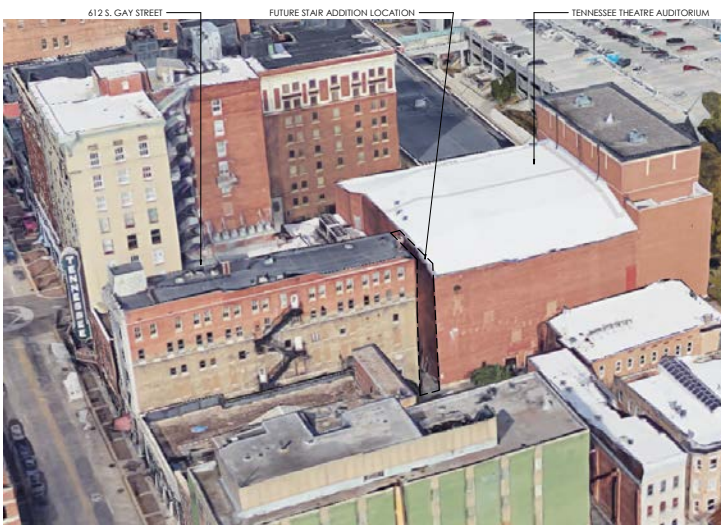
SOUTH ELEVATION



WEST ELEVATION [LOOKING NORTH]



WEST ELEVATION [LOOKING SOUTH]



AERIAL VIEW LOOKING NORTH



WEST ELEVATION LOOKING DOWN FROM 612 ROOF



WEST ELEVATION FROM 612 ROOF



WEST ELEVATION LOOKING NORTH FROM 612 ROOF



Project Information:

19020

612 SOUTH GAY STREET RENOVATION
 612 South Gay St. Knoxville, TN

Seal

EARLY PBID PACKAGE NO. 1:
 DEMOLITION & ENVELOPE REPAIR

PRELIMINARY PACKAGE:
NOT FOR CONSTRUCTION

Consultant:

#	ISSUE	DATE
---	-------	------

Issue Date: 02/09/2020
 PIC: MARGARET BUTLER
 PE: AUSTON MILLER
 PA: CHARLOTTE McELLENDOCK / JC Name:
 Drawn By: Author
 Checked By: Project Checked By

AX002

MODIFIED ELEVATION & IMAGE REFERENCES



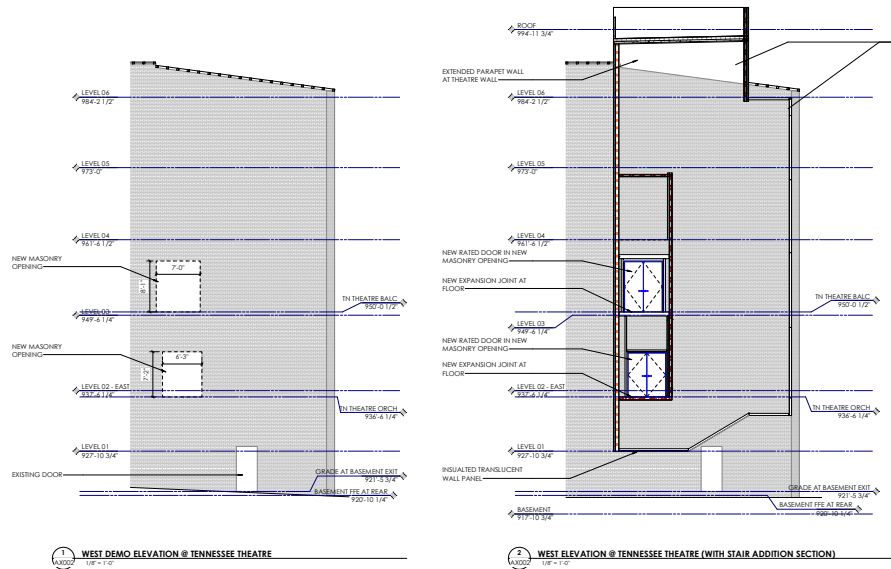
CORRUGATED METAL PANEL



INSULATED TRANSLUCENT WALL PANEL

THE SECRETARY OF THE INTERIORS STANDARDS STATE THAT ADDITIONS TO HISTORIC BUILDINGS SHOULD BE COMPATIBLE YET DIFFERENTIATED FROM THE HISTORIC BUILDING. THE PROPOSED MATERIALS MAKE IT CLEAR THAT THE STAIR TOWER IS AN ADDITION BETWEEN THE HISTORIC TENNESSEE THEATRE BUILDING AND THE HISTORIC 612 BUILDING.

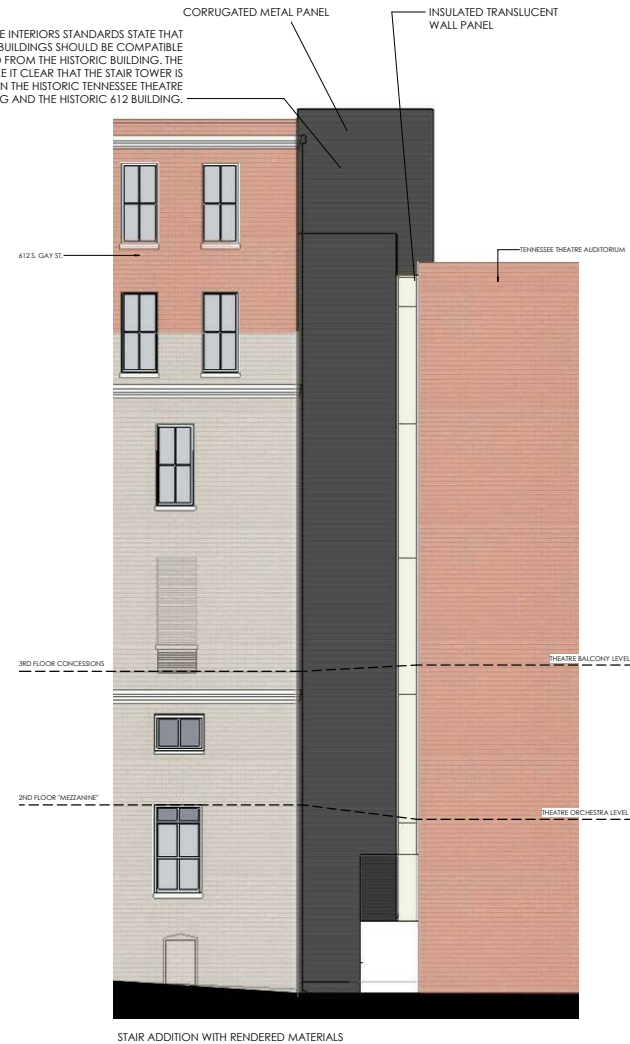
THE STAIR ADDITION WILL ONLY BE STRUCTURALLY TIED TO THE THEATRE AT THE PARAPET WALL. THE ENCLOSURE WILL CONNECT TO THE THEATRE WALL VIA EXPANSION JOINTS AT THE FLOOR AND WALLS. THE STAIRS AND STRUCTURE WILL ONLY CONNECT STRUCTURALLY TO THE 612 BUILDING.



ORIGINAL WINDOWS ON THE SOUTH, EAST AND NORTH ELEVATIONS WERE 2 OVER 2 DOUBLE HUNG OR 2 LITE HOPPER WINDOWS. REPLACEMENT WINDOWS WILL BE ALUMINUM WOOD CLAD WINDOWS, THE 2 OVER 2 WILL BE DOUBLE HUNG AND THE 2 LITE WILL BE FIXED.



SOUTH ELEVATION C. 1929



STAIR ADDITION WITH RENDERED MATERIALS



Project Information:

19020

612 SOUTH GAY STREET RENOVATION
 612 South Gay St. Knoxville, TN

Seal

DOWNTOWN DESIGN REVIEW BOARD

PRELIMINARY PACKAGE:
NOT FOR CONSTRUCTION

Consultant:

#	ISSUE	DATE

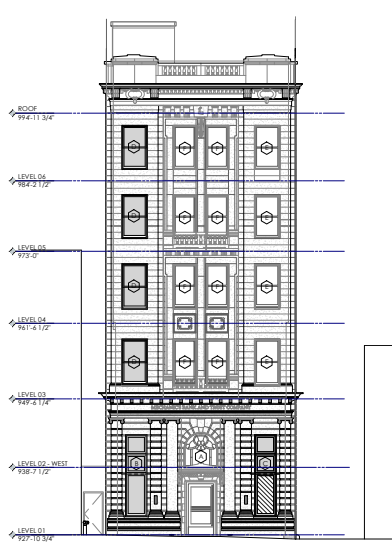
Issue Date: 02/19/2020
 PIC: MARGARET BUTLER
 PM: AUTUMN MILLER
 PA: CHARLOTTE MCLELLAND/ JC Name
 Drawn By: Author
 Checked By: Project Checked By

Drawing Info:

A300

COMPOSITE EXTERIOR ELEVATIONS

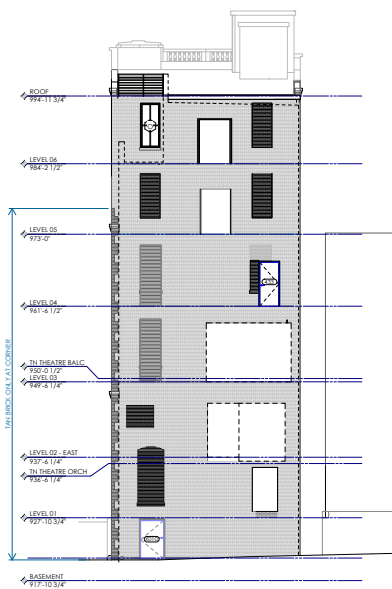
Copyright © 2019 McCarthy Holtschlag McCarty



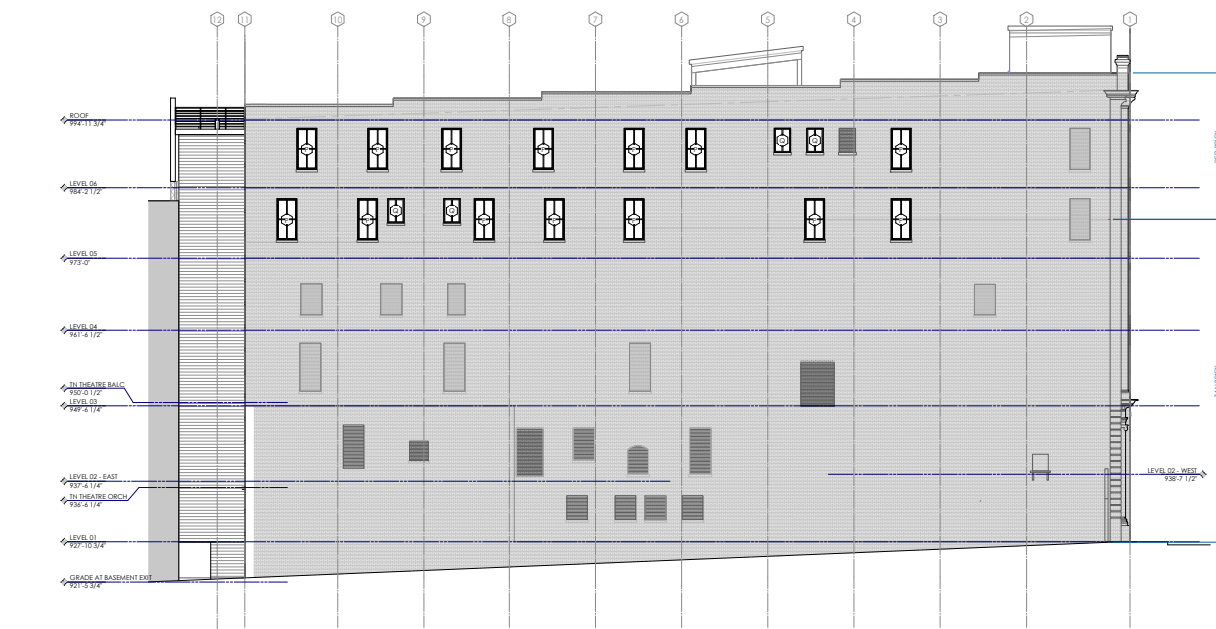
1 WEST ELEVATION
 1/8" = 1'-0"



2 SOUTH ELEVATION
 1/8" = 1'-0"



3 EAST ELEVATION
 1/8" = 1'-0"



4 NORTH ELEVATION
 1/8" = 1'-0"

02/19/2020 10:51:11 AM



Project Information:
19020

612 SOUTH GAY STREET RENOVATION
 612 South Gay St. Knoxville, TN

Seal

DOWNTOWN DESIGN REVIEW BOARD

PRELIMINARY PACKAGE:
NOT FOR CONSTRUCTION

Consultant:

#	ISSUE	DATE

Issue Date: 02/19/2020
 PIC: MARGARET BUTLER
 PE: AUSTON MILLER
 PA: CHARLOTTE McELLENDOCK / JC Name:
 Drawn By: Author
 Checked By: Project Checked By:
 Drawing Info:

A302

SOUTH ELEVATION

ELEVATION NOTES

1. ALL MASCHBY AND STONE TO BE CLEANED AND TUCK POINTED.
2. REPAIR MASCHBY AND STONE AS NEEDED WHERE PATTERS HAVE BEEN REMOVED.
3. ALL WINDOWS TO BE REPLACED TO MATCH HISTORIC CONFIGURATION UNLESS NOTED OTHERWISE.
4. FIRE ESCAPE MUST REMAIN UNTIL INTERIOR STAIR AND STAIR ADDITION ARE BOTH COMPLETE. AFTERWARDS REMOVE AND REPAIR FACADE AS NOTED.
5. UNLESS NOTED OTHERWISE, PREVIOUS FIRE ESCAPE DOOR LOCATIONS TO RECEIVE NEW STONE SILLS INFILL WITH MULTI-WYTHE BRICK TO MATCH EXISTING.
6. MATCH BRICK TO THE APPROPRIATE ADJACENT COLOR, BRICK AND STONE SAMPLES TO BE APPROVED BY ARCHITECT.



1 SOUTH ELEVATION
 1/8" = 1'-0"



Project Information:
19020

612 SOUTH GAY STREET RENOVATION
 612 South Gay St. Knoxville, TN

Seal

DOWNTOWN DESIGN REVIEW BOARD

PRELIMINARY PACKAGE:
NOT FOR CONSTRUCTION

Consultant:

#	ISSUE	DATE

Issue Date: 02/19/2020
 PIC: MARGARET BUTLER
 PM: AUSTON MILLER
 PA: CHARLOTTE MCLELLENDOK / JC Name
 Drawn By: Author
 Checked By: Project Checked By

Drawing Info:

A303

NORTH ELEVATION

ELEVATION NOTES

1. ALL MASONRY AND STONE TO BE CLEANED AND TUCK POINTED.
2. REPAIR MASONRY AND STONE AS NEEDED WHERE PATTERS HAVE BEEN REMOVED.
3. ALL WINDOWS TO BE REPLACED TO MATCH HISTORIC CONFIGURATION UNLESS NOTED OTHERWISE.
4. FIRE ESCAPE MUST REMAIN UNTIL INTERIOR STAIR AND STAIR ADDITION ARE BOTH COMPLETE. AFTERWARDS, REMOVE AND REPAIR FACADE AS NOTED.
5. UNLESS NOTED OTHERWISE, PREVIOUS FIRE ESCAPE DOOR LOCATIONS TO RECEIVE NEW STONE SILLS. INFILL BELOW WITH MULTI-WYTHE BRICK TO MATCH EXISTING.
6. MATCH BRICK TO THE APPROPRIATE ADJACENT COLOR. BRICK AND STONE SAMPLES TO BE APPROVED BY ARCHITECT.



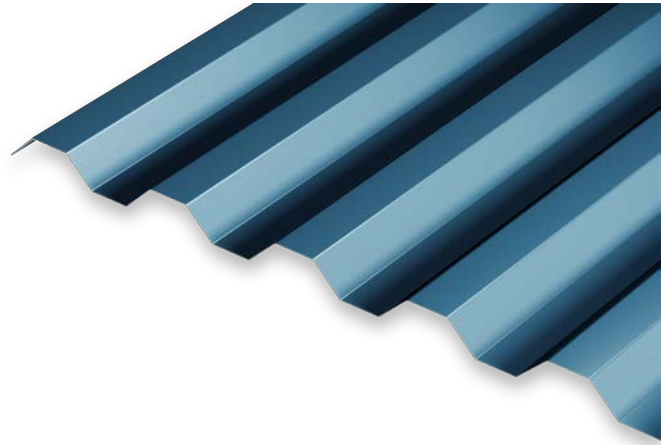
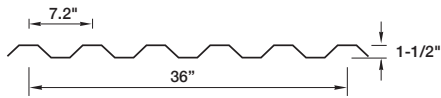
7.2 PANEL

MATERIALS

.032 aluminum	24 gauge steel
.040 aluminum	22 gauge steel
.050 aluminum	Galvalume Plus

SPECS

36" Wide 1-1/2" High



PRODUCT FEATURES

- ▶ 30-year non-prorated finish warranty
- ▶ Matching screws and rivets
- ▶ Closure strips available
- ▶ Precut short lengths (5'-0" minimum)
- ▶ Panel lengths up to 38'

MATERIAL

- ▶ 43 stocked colors (24 gauge steel)
- ▶ 15 stocked colors (22 gauge steel)
- ▶ 36 stocked colors (.032 aluminum)
- ▶ 22 stocked colors (.040 aluminum)
- ▶ 29 stocked colors (.050 aluminum)
- ▶ Galvalume Plus available

FLORIDA BUILDING PRODUCT APPROVALS

Please refer to pac-clad.com or your local factory for specific product approval numbers for exposed fastener panels.



photo: Chuck Choi

KALWALL[®]

high performance translucent building systems

FACADES

Wall Systems

Unitized Curtain Walls

Window Replacements

800 258 9777 | KALWALL.COM | +1 603 627 3861



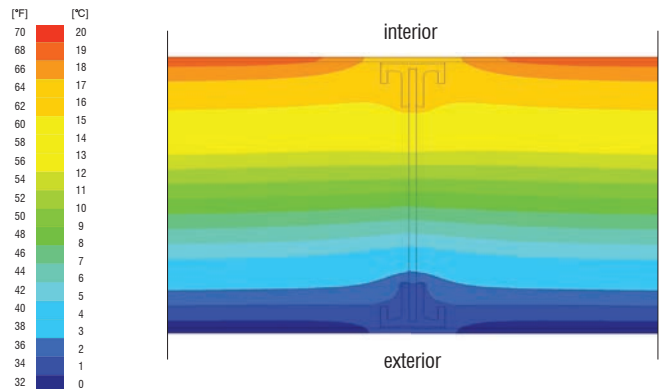
photo: Halkin|Mason Photography

University Heights Charter School | Newark, NJ USA | KSS Architects (above)

Thermal Break Technology

For any high performance building envelope to perform optimally, careful consideration must be given to specify adequate levels of thermal insulation, minimize air infiltration, provide sufficient solar control, and eliminate thermal bridging to the greatest extent possible. To address potential thermal bridges, which can produce localized areas of higher heat transfer, Kalwall systems employ proprietary thermal break technologies for both the Kalwall panel and the Clamp-tite™ fastening system. The diagram on the right shows a thermal gradient, generated using THERM 7 software, to illustrate the effectiveness of the 2-3/4" (70 mm) Kalwall panel's thermally broken grid core.

Thermal Gradient Analysis: 0.14 "U" (0.79 W/m²K) panel



KALWALL®

800 258 9777 | KALWALL.COM | +1 603 627 3861

Wall Systems

Translucent Wall Systems offer many budget-friendly, elegant side lighting solutions. From single story applications to mid-rise construction, Kalwall Wall Systems transform sunlight into glare-free daylight to enhance any space.

Standard Wall Systems

For certain climate zones and building types, non thermally-broken Wall Systems provide sufficient envelope performance that is both cost effective and meets energy codes.

Standard, aluminum interlocking I-beam panel grid core

Standard aluminum Clamp-tite™ fastening system

U-factors range from 0.53 - 0.18 (3.01 to 1.02 W/m²K)

Solar Heat Gain Coefficients (SHGC) from 0.65 to 0.10

Visible Light Transmission (VLT) values from 3% to 50%

STANDARD SYSTEM | BACK FASTENED SYSTEM | CONCEALED FASTENERS | KALCURVE | 1-9/16" SYSTEM



Thermally Broken Wall Systems

For more demanding climate zones and building types, Thermally-Broken Wall Systems provide enhanced envelope performance to meet or exceed the toughest energy codes.

Thermally-broken, interlocking I-beam panel grid core

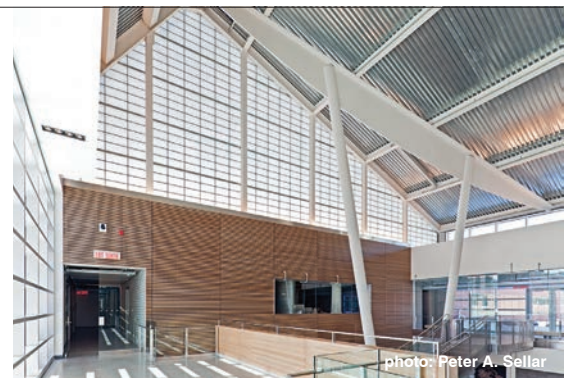
Thermally-broken aluminum Clamp-tite™ fastening system

U-factors range from 0.23 - 0.05 (1.31 to 0.28 W/m²K)

Solar Heat Gain Coefficients (SHGC) from 0.28 to 0.10

Visible Light Transmission (VLT) values from 3% to 50%

THERMAL BREAK+STRUT SYSTEM | BACK FASTENED SYSTEM | CONCEALED FASTENERS | KALWALL 100



Specialty Applications

Kalwall offers many product configurations for projects that require special performance criteria to protect from extreme weather events and manage human safety + security

Class A fire ratings available for Wall Systems and Unitized Curtain Walls

Windborne debris protection - tested and certified up to large missile D

Blast resistant systems meet DOD UFC 4-010-01 anti-terrorism force protection

Factory Mutual certified systems: Class I exterior wall FM 4881 & FM 4411

Factory Mutual explosion venting / pressure release systems: FM 4440

WINDBORNE DEBRIS PROTECTION | EXPLOSION VENTING | ANTI-TERRORISM FORCE PROTECTION | FM CLASS I



Sports Hall | Bussy-Saint-Georges, France | Marc Duplantier Architectes (below)



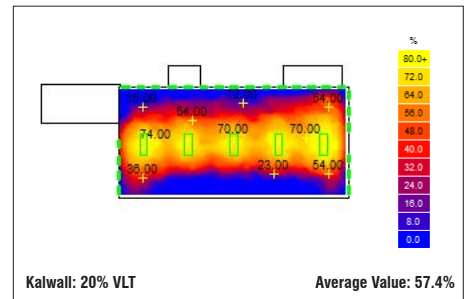
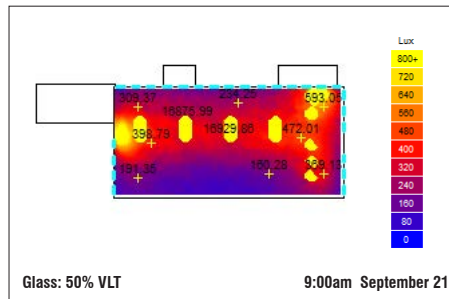
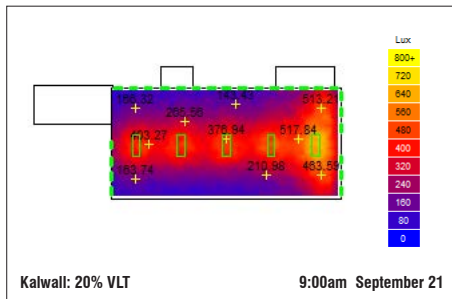
Please visit KALWALL.COM for all wall system specifications, CAD details, BIM families & performance charts online



photo: Mark Herboth

RDU International Airport Terminal | Raleigh-Durham, NC | Clark Nexsen Architects (above)

Daylight Modeling Studies: a complimentary service to optimize your daylighting design



Radiance Illumination

Provides a “snapshot” of daylight levels at a given point in time. Typically, simulations are made to study light levels at the Fall and Spring Equinoxes during the early morning, at solar noon, and late in the afternoon on both sunny and overcast skies anywhere in the world.

Glare Pattern Analysis

Helps to identify potential problem areas where glare is a concern such as offices, classrooms, athletic facilities and other spaces where visual acuity is critical. These studies are especially useful when designers and specifiers call for a mix of translucent and vision glazing (glass).

Daylight Autonomy

Gives average daylight values and shows what percentage of the time the space can operate at the target light level with daylight alone. sDA (spatial daylight autonomy) and ASE (annual sunlight exposure) are all available for LEED® documentation for daylighting credits.

Unitized Curtain Walls

Unitized Curtain Walls can do everything Wall Systems can but, with the added benefits offered by factory unitization. In addition to translucent wall panels, designers can integrate fixed and operable windows, opaque panels and fixed louvers. From single-story window walls to multi-story curtain walls, Kalwall Unitized Curtain Walls provide modular daylighting solutions that balance aesthetics, performance, and cost.



Factory Unitization

Large panel units, up to 5' x 35', are assembled and glazed at the factory. They can incorporate both translucent panels, fixed and operable vision glazing, as well as opaque panels and fixed louvers to provide superior fit, especially when compared to systems assembled in the field.



Rapid Installation

Once delivered to the site, these large units can be installed rapidly in order to save both time and money. This approach also allows the building to be enclosed in a fraction of the time compared to conventional curtain wall systems allowing interior work to commence much earlier.



Superior Performance

Once in service, unitized curtain walls offer higher levels of performance over the full lifetime of the system without sacrificing design flexibility. Perhaps, that is why architects, contractors, and owners alike can all reap the benefits without compromising their project goals.

Tintern Middle School | Melbourne, Australia | Architectus (below)

photo: Brendan Finn



Please visit KALWALL.COM for all unitized curtain wall specifications, CAD details, BIM families & performance charts



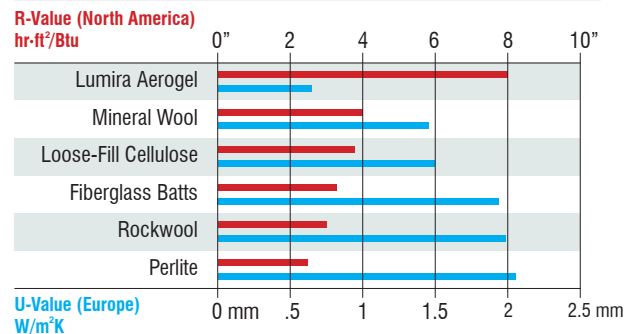
photo: Peter Aaron | OTTO

Yale Sculpture Building | New Haven, CT | Kieran Timberlake Architects | Double Skin Facade System with Schuco® and Kalwall+Lumira (above)

Kalwall+Lumira® Aerogel

Aerogel is among the lightest and most effective insulating materials in the world. Cabot's Lumira aerogel is a solid which consists largely of air (>90%) contained in a structure with pore sizes less than the mean free path of air molecules, which severely inhibits heat transfer through the material, enabling world class performance. Cabot produces Lumira aerogel at its state-of-the-art manufacturing facility located near Frankfurt, Germany, where it began commercial production in 2003. Kalwall was the first company to offer Lumira aerogel in partnership with Cabot in its 2-3/4" (70 mm) translucent daylighting panel. Center of panel U-values of 0.05 (0.28 W/m²k)

Thermal Insulation: values per inch (25 mm) of material tested



KALWALL®

800 258 9777 | KALWALL.COM | +1 603 627 3861

Window Replacements

Retrofits and Energy Upgrades with Kalwall Window Replacements result in dramatic savings by stopping heat loss and reducing electric light usage by offering glare free-usable diffuse daylight, eliminating the need for shades, and decreasing solar heat gain. Our high performance systems are very competitively priced, virtually maintenance free, and offer increased security compared to typical glass retrofits, for both increased impact resistance and vandalism.



Window Replacement Systems

Kalwall Window Replacements offer budget-friendly fenestration options that deliver glare-free daylighting while simultaneously increasing energy performance and decreasing maintenance requirements. Delivered in unitized formats, specifiers can combine translucent and vision glazing to provide diffuse daylight, views and ventilation. Perfect for deep energy retrofit (DER) & renovations, these systems can be installed in existing rough openings rapidly, minimizing disruption to building occupants.

Graffiti and vandal resistant face sheets including high impact options

Highly insulated to reduce heating+cooling costs from HVAC systems

Various head, sill & jamb detail options for retrofits in existing R.O.s

Much lower maintenance requirements compared to conventional glazing

Windborne debris protection - tested and certified up to large missile D

HC-2000 Windows

Kalwall manufactures its HC-2000 Windows for commercial and industrial applications where both budget and performance are primary drivers. HC-2000 windows have been engineered and tested to ensure reliability.

HC-2000 available: fixed, project-in, project-out (max sizes vary)

HC-2000: AAMA/ANSI Performance Class: PI-AW50, PO-HC55, F-AW80

E-Series Windows

Kalwall manufactures its E-Series Windows for architectural applications where performance and craftsmanship are paramount. E-Series windows are engineered and tested for the most demanding applications.

E-Series available: fixed, project-in, project-out (max sizes vary)

E-Series: AAMA/ANSI Performance Class: PI-AW60, PO-AW70, F-AW80

E-Series Large Missile Impact: Design pressure 80 PSF (3.83kPa) tested and certified to TAS 201, TAS 202, TAS 203, ASTM E1886 & ASTM E1996

STANDARD SYSTEM | THERMAL BREAK+STRUT SYSTEM | CONCEALED FASTENERS



Before Window Replacement

Old, energy-inefficient single-pane glazing



During Window Replacement

Replacement system installed in existing R.O.s



After Window Replacement

New, energy-efficient Kalwall system in service.

Please visit KALWALL.COM for all window replacement specifications, CAD details, BIM families & performance charts

Experience the world's most advanced daylighting systems



photo courtesy of: GMC + Sherman Construction



photo courtesy of: GMC + Sherman Construction

Indoor Football Practice Facility, Clemson University | Clemson, SC | Infinity Architecture



Kalwall Corporation is continually engaged in research to improve our products. Therefore, the material in this brochure is descriptive in nature and does not constitute a warranty, either express or implied. Please contact us for a copy of the warranty that is given with the sale of our products. Kalwall, Kalcurve, Skyroof, and Geo-Roof are registered trademarks. Verti-Kal, Clamp-tite, and Museum-Quality Daylighting are trademarks of the Kalwall Corporation. Clearspan is a trademark of Structures Unlimited, Inc. Lumira is a registered trademark of Cabot Corporation. 9 | 10 | 16 ©2016 Kalwall Corporation