

## HISTORIC AND DESIGN REVIEW COMMISSION

August 19, 2015

Agenda Item No: 7

**HDRC CASE NO:** 2015-315  
**ADDRESS:** 849 E COMMERCE ST  
**LEGAL DESCRIPTION:** NCB 1010 BLK 2 LOT 26 RIVERCENTER SUBD  
**ZONING:** D RIO-3  
**CITY COUNCIL DIST.:** 1  
**APPLICANT:** Kourtnie Airheart/GHA Architects  
**OWNER:** New Rivercenter Mall II, L.P.  
**TYPE OF WORK:** Exterior modifications, signage  
**REQUEST:**

The applicant is requesting a Certificate of Appropriateness for approval to:

1. Install a vertically oriented internally illuminated blade sign displaying "Yard House" that will total 20.82 square feet. The proposed blade sign will be mounted perpendicular to E Commerce.
2. Perform exterior modifications to the Commerce Street façade.
3. Perform minor exterior modifications to the bridge dining over lagoon/ceiling above pedestrian walkway.
4. Install a horizontally oriented internally illuminated channel letter sign displaying "Yard House" totaling fifty square feet at the E Commerce level. The sign will be mounded to a satin black panel.
5. Install two horizontally oriented internally illuminated "Yard House" signs totaling thirty-two total square feet that are to be mounted to black satin panels and located within the pedestrian bridge one story above the lagoon level.
6. Install a horizontally oriented internally illuminated channel letter sign displaying "Yard House" mounted on the east façade which will be viewed from both E Commerce and the lagoon. This signage will be mounted to a black satin panel and will be a total of eight square feet in area.

### APPLICABLE CITATIONS:

(a) Architectural Character. A basic objective for architectural design in the river improvement overlay districts is to encourage the reuse of existing buildings and construction of new, innovative designs that enhance the area, and help to establish distinct identities for each of the zone districts. At the same time, these new buildings should reinforce established building traditions and respect the contexts of neighborhoods.

When a new building is constructed, it shall be designed in a manner that reinforces the basic character-defining features of the area. Such features include the way in which a building is located on its site, the manner in which it faces the street and its orientation to the river. When these design variables are arranged in a new building to be similar to those seen traditionally, visual compatibility results.

(b) Mass and Scale. A building shall appear to have a "human scale." In general, this scale can be accomplished by using familiar forms and elements interpreted in human dimensions. Exterior wall designs shall help pedestrians establish a sense of scale with relation to each building. Articulating the number of floors in a building can help to establish a building's scale, for example, and prevent larger buildings from dwarfing the pedestrian.

(1) Express facade components in ways that will help to establish building scale.

A. Treatment of architectural facades shall contain a discernible pattern of mass to void, or windows and doors to solid mass. Openings shall appear in a regular pattern, or be clustered to form a cohesive design. Architectural elements such as columns, lintels, sills, canopies, windows and doors should align with other architectural features on the adjacent facades.

(d) Materials and Finishes. Masonry materials are well established as primary features along the river corridor and their use should be continued. Stucco that is detailed to provide a texture and pattern, which conveys a human scale, is also part of the tradition. In general, materials and finishes that provide a sense of human scale, reduce the perceived mass of a building and appear to blend with the natural setting of the river shall be used, especially on major structures.

(1) Use indigenous materials and traditional building materials for primary wall surfaces. A minimum of seventy-five (75) percent of walls (excluding window fenestrations) shall be composed of the following:

- A. Modular masonry materials including brick, stone, and rusticated masonry block, tile, terra-cotta, structural clay tile and cast stone. Concrete masonry units (CMU) are not allowed.
  - B. Other new materials that convey the texture, scale, and finish similar to traditional building materials.
  - C. Stucco and painted concrete when detailed to express visual interest and convey a sense of scale.
  - D. Painted or stained wood in a lap or shingle pattern.
- (2) The following materials are not permitted as primary building materials and may be used as a secondary material only:
- A. Large expanses of high gloss or shiny metal panels.
  - B. Mirror glass panels. Glass curtain wall buildings are allowed in RIO-3 as long as the river and street levels comply with 35-674(d)(1) above.
- (3) Paint or Finish Colors.
- A. Use natural colors of indigenous building materials for properties that abut the Riverwalk area.
  - B. Use matte finishes instead of high glossy finishes on wall surfaces. Wood trim and metal trim may be painted with gloss enamel.
  - C. Bright colors may highlight entrances or architectural features.
- (g) Awnings, Canopies and Arcades. (See Figure 674-2) The tradition of sheltering sidewalks with awnings, canopies and arcades on commercial and multi-family buildings is well established in San Antonio and is a practice that should be continued. They offer shade from the hot summer sun and shelter from rainstorms, thereby facilitating pedestrian activity. They also establish a sense of scale for a building, especially at the ground level. Awnings and canopies are appropriate locations for signage. Awnings with signage shall comply with any master signage plan on file with the historic preservation officer for the property. Awnings and canopies installed at street level within the public right-of-way require licensing with the city's capital improvements management services (CIMS) department. Canopies, balconies and awnings installed at river level within the public right-of-way require licensing with the city's downtown operations department.
- (1) If awnings, arcades and canopies are to be used they should accentuate the character-defining features of a building.
- A. The awning, arcade or canopy shall be located in relationship to the openings of a building. That is, if there are a series of awnings or canopies, they shall be located at the window or door openings. However awnings, canopies and arcades may extend the length of building to provide shade at the first floor for the pedestrian.
  - B. Awnings, arcades and canopies shall be mounted to highlight architectural features such as moldings that may be found above the storefront.
  - C. They should match the shape of the opening.
  - D. Simple shed shapes are appropriate for rectangular openings.
  - E. Odd shapes and bubble awnings are prohibited except where the shape of an opening requires a bubble awning, or historic precedent shows they have been previously used on the building.
  - F. Canopies, awnings and arcades shall not conflict with the building's proportions or with the shape of the openings that the awning or canopy covers.
  - G. Historic canopies shall be repaired or replaced with in-kind materials.
- (2) Materials and Color.
- A. Awnings and canopies may be constructed of metal, wood or fabric. Certain vinyl is allowed if it has the appearance of natural fiber as approved by the HDRC.
  - B. Awning color shall coordinate with the building. Natural and earth tone colors are encouraged. Fluorescent colors are not allowed. When used for signage it is appropriate to choose a dark color for the canopy and use light lettering for signage.
- (3) Incorporating lighting into the design of a canopy is appropriate.
- A. Lights that illuminate the pedestrian way beneath the awning are appropriate.
  - B. Lights that illuminate the storefront are appropriate.
  - C. Internally illuminated awnings that glow are prohibited.

*UDC Section 35-678. – Signs and Billboards in the RIO.*

(a) General Provisions.

- (1) This section governs all exterior signs and all interior signs hung within ten (10) feet of an exterior fenestration, or those signs intended to be read by exterior patrons.
- A. All signage within an RIO district shall conform to all city codes and must have approval of the historic

preservation officer prior to installation.

B. Permits must be obtained following approval of a certificate of appropriateness.

C. No sign shall be painted, constructed, erected, remodeled, refaced, relocated, expanded or otherwise altered until it has been approved and a permit has been obtained from the development services department in accordance with the provisions of this section and applicable city code.

D. Signs, visual displays or graphics shall advertise only the business on the premises unless otherwise allowed in this section.

(2) When reviewing applications for signage the historic preservation officer and the historic and design review commission shall consider the visual impact on nearby historic resources.

A. Signs should respect and respond to the environment and landmark or district character in which constructed.

B. Signs should respect and respond to the river improvement overlay districts character and the historic Riverwalk.

C. The content or advertising message carried by permitted signs shall pertain to the business located on the same premises as the sign or to any otherwise lawful noncommercial message that does not direct attention to a business operated for profit, or to a commodity or service for sale, provided that signs erected on buildings with multiple businesses within shall pertain to any such business within.

(3) For signs with changeable message panels, the changeable message area of the sign shall not exceed twenty-five (25) percent of the total sign area, except for gasoline price signs which shall not exceed seventy-five (75) percent of the total sign area. Electronic changeable message boards shall be prohibited.

(6) Special consideration should be given to the character of the sign itself proposed in the application, and whether the proposed sign has inherently historic characteristics which may fall outside of the guidelines presented below but which would contribute to the historic district, landmark or area for which it is being proposed. Additionally, when reviewing applications for signage the historic preservation officer and the historic and design review commission shall consider the visual impact on nearby historic resources.

(c) Standards for Sign Design and Placement. In considering whether to recommend approval or disapproval of an application to construct or alter signage on a building, object, site, or structure in a river improvement overlay district, review shall be guided by the following standards in addition to any specific design guidelines approved by city council.

(1) Primary sign design considerations shall be identification and legibility. Size, scale, height, color and location of signs shall be harmonious with, and properly related to, the overall character of the district and structure. Sign materials shall be compatible with that of the building facade. Highly reflective materials that will be difficult to read are not permitted.

(3) All graphic elements shall reinforce the architectural integrity of any building. Signs shall not disfigure, damage, mar, alter, or conceal architectural features or details and shall be limited to sizes that are in scale with the architecture and the streetscape. Emblems and symbols of identification used as principal structural or architectural design elements on a facade shall not be included in the total allowable signage per facade per structure when approved. Review shall be guided by the building's proportion and scale when such elements are incorporated.

(4) Graphics and signage may be illuminated by indirect, internal, or bare-bulb sources, providing that glare is not produced; by indirect light sources concealed by a hood or diffuser; by internal illumination with standard opal glass or other translucent material or with an equal or smaller light transmission factor. All illumination shall be steady and stationary. Neon lighting shall be permitted when used as an integral architectural element or artwork appropriate to the site. For purposes of this subsection, "Glare" shall mean an illumination level of six (6) Lux or greater at the property boundary. If internal illumination is used, it shall be designed to be subordinate to the overall building composition. Light fixtures should reflect the design period of the building on which they are placed. The use of ambient light from storefront or streetlights is encouraged.

(d) Proportion of Signs. For all signage, signage width and height must be in proportion to the facade, respecting the size, scale and mass of the facade, building height, and rhythms and sizes of window and door openings. The building facade shall be considered as part of an overall sign program but the sign shall be subordinate to the overall building composition. Additionally, signs shall respect and respond to the character and/or period of the area in which they are being placed.

(e) Number and Size of Signs.

(1) Number and Size. The historic and design review commission shall be guided in its decisions by the total number of businesses or services per building and the percentage of visible storefront occupied by each business or service. Applicants may apply for up to three (3) signs total. Total signage for all applicants shall not exceed

fifty (50) square feet unless additional signs and/or additional total footage is approved. Additional square footage may be approved provided that the additional signage is in conformity with, and does not interfere with, the pedestrian experience on the Riverwalk. The additional square footage shall be based upon the size and scope of the site. Signs should reflect the type and speed of traffic they are meant to attract. Signs designed for pedestrians and drivers of slow moving cars should not be the same size as signs designed for highway traffic.

(2)Sign Area. The sign area shall be determined in the following manner:

A.Sign Areas. The area of a sign shall be computed on the actual area of the sign. Sign area shall be calculated as the area within a parallelogram, triangle, circle, semicircle or other regular geometric figure including all letters, figures, graphics or other elements of the sign, together with the framework or background of the sign. The supporting framework of the sign shall not be included in determining sign area unless such supporting framework forms an integral part of the sign display, as determined by the historic preservation officer. If the sign is located on a decorative fence or wall, when such fence or wall otherwise meets these or other ordinances or regulations and is clearly incidental to the display itself, the fence or wall shall not be included in the sign area. In the cases of signs with more than one (1) sign face, including but not restricted to double-faced signs, back-to-back signs, overhanging signs, and projecting signs, each side of the sign shall be included in total allowable signage area.

## **FINDINGS:**

- a. Conceptual approval for the placement and square footage of signage at 849 E Commerce and the San Antonio River Lagoon was approved on October 17, 2012 as part of the Rivercenter Mall's master signage plan. Signage as specifics including materials and square footage were conceptually approved at that time. The applicant has proposed additional signage as well as additional square footage at this time.
- b. The applicant has proposed to install a vertically oriented internally illuminated blade sign displaying "Yard House" that will total 20.82 square feet. The proposed blade sign will be mounted perpendicular to E Commerce. According to the UDC Section 35-678(c)(1), the size, scale, height, color and location of signs shall be harmonious with, and properly related to, the overall character of the district and structure. At this location, staff finds this proposal appropriate given the existence of other similar signs and the non-historic status of the structure to which it will be mounted.
- c. Install a horizontally oriented internally illuminated channel letter sign displaying "Yard House" totaling fifty square feet at the E Commerce level. The sign will be mounded to a satin black panel. According to the UDC Section 35-678(c)(1), the size, scale, height, color and location of signs shall be harmonious with, and properly related to, the overall character of the district and structure. Staff finds the applicant's proposal to be appropriate regarding its placement and materials, however, staff recommends the applicant reduce the overall size of the proposed signage to be no more than twenty-five square feet to not only be consistent with previously approved signage, but also the Rivercenter Mall master signage plan.
- d. The applicant has proposed various façade alterations to the Commerce Street façade including the extrusion of two piers and the creation of a recessed entrance which will be below the proposed Commerce Street signage as well as light fixtures and lighted panels trimmed in black metal. The applicant has proposed to clad each of the piers with tile. Staff finds the proposal of the exterior modifications appropriate and consistent with the UDC Section 35-674(d).
- e. The applicant has proposed minor exterior modifications to the underside of the bridge dining/pedestrian walkway over the lagoon. The applicant has proposed to replace the existing outdoor ceiling with a new ceiling as part as the scheduled mechanical upgrades. The new ceiling will match the existing and is consistent with the UDC Section 35-678.
- f. The applicant has proposed to install two horizontally oriented internally illuminated "Yard House" signs totaling thirty-two total square feet that are to be mounted to black satin panels and located within the pedestrian bridge one story above the lagoon level. Given its unique location, the applicant's occupancy of the pedestrian bridge and the lack of proposed signage oriented to the north, staff finds this request appropriate.
- g. The applicant has proposed to install a horizontally oriented internally illuminated channel letter sign displaying "Yard House" mounted on the east façade which will be viewed from both E Commerce and the lagoon. This signage will be mounted to a black satin panel and will be a total of eight square feet in area. This proposed signage as well as its placement are in addition to the signage allowed at this location that was conceptually approved on October 17, 2012. Staff finds that this request is not appropriate nor consistent with the UDC Section 35-678(c)(1) given its location on the building's façade where at which level the precedent for signage does not exist.

**RECOMMENDATION:**

Staff recommends approval of items #1 through #5 based on findings a through f with the stipulation that the proposed E Commerce Street signage is reduced to no more than twenty-five total square feet as noted in finding c.

Staff does not recommend approval of item #6 based on finding g. Staff finds that this request is not appropriate nor consistent with the UDC Section 35-678(c)(1) given its location on the building's façade where at which level the precedent for signage does not exist.

**CASE MANAGER:**

Edward Hall





**July 31, 2015**

**HDRC Submittal – Yard House Final Approval – 849 East Commerce, Rivercenter Mall**

The intent of this application is to secure final approval for the Yard House tenant lease space portion of the project. The scope of this submittal includes:

**Signage:**

First Floor: Sign A and Sign B  
Second Floor: Sign C and Sign D

**First Floor Façade:** New materials proposed to mall façade at street level along E. Commerce

**Bridge Dining Over River:**

New ceiling proposed for ceiling above pedestrian walkway/directly below Yard House tenant space.

**Yard House Concept:**

The latest location of Yard House Restaurant is to be found in the Rivercenter Mall along San Antonio's famous Riverwalk. Yard House is passionate about delivering a crafted food, draught beer and cocktail experience in a social, "come as you are" atmosphere. The restaurant offers one of largest selections of draft beers around, a diverse menu of American fare, and a heady selection of classic rock music on a state-of-the-art sound system.

The carefully crafted interior finishes and design elements create a casual, yet polished environment. The pulse of the building is the center island bar that creates a social, high energy atmosphere throughout the restaurant. A glass enclosed keg room housing more than 300 kegs, the unique beer delivery system, and the original artwork commissioned by famed artist Jerome Gastaldi are vivid aesthetics in each location. An abundance of flat screens showcase the day's sports and special events, while the state-of-the-art sound system plays modern and classic rock chosen from Yard House's extensive music library.

Yard House exteriors are built to suit, no two are the same. For this reason Yard House depends strongly on key design elements to convey its brand identity, including high end materials, light boxes, and custom signage.

The menu consists of over 140 chef-inspired recipes of contemporary American fare prepared fresh to order in a scratch kitchen. The center island bar showcases over 100 draught beers with brands of every style including handles dedicated to locally brewed craft beers. The Chalkboard Beer program features rare, limited-release brews, as well as a unique bottled beer offering for the discerning beer aficionado. Handcrafted specialty cocktails round out the beverage offering along with a vast selection of chilled martinis, Fresh & Skinny™ drinks, spirits, bottled wines and sake.

**First Floor (Street Level) Signage:**

- Sign A is the "Yard House" main identification sign located over the main entry point viewed from Commerce Street. The sign is internally illuminated channel letters mounted to a Satin Black panel. Overall signage area is 50 square feet.

- Sign B is the “Yard House” Marquee Blade Sign located along the South Elevation facing Commerce Street. The proposed blade sign is consistent with other blade signs in the area (Margaretville 25 SF). The Yard House blade sign is 12-6” x 1’-8” totaling 20.83 SF in area. The proposed sign is constant in design and function of the other blade signs along this elevation and fits well with the intent of the area. The letters are internally illuminated and mounted to a cabinet.

#### **Second Floor Signage:**

- Sign C is the “Yard House” sign viewed from Commerce Street and the River. The sign is internally illuminated channel letters mounted to a Satin Black panel. Overall signage area is 8 square feet in area. This sign is designated to identify the “Yard House” restaurant located on the Street Level to both vehicular and pedestrian traffic.
- Sign D are the two (2) “Yard House” signs viewed from the River. The signs are internally illuminated channel letters mounted to a Black Satin panel. Signage located at River level will be 16 SF in area each and placed behind the glass, where these particular signs are located a story above the River and located interior to the Yard House lease area. The bar area will occupy this space, which is unique to the other tenants in the mall. This is the only tenant with lease space over the river. This area is unique in design and function, placing signage in this area helps balance the elevation tying in the unique space.

#### **First Floor Façade:**

In an effort to create the Yard House “brand recognition” for pedestrians and vehicular traffic, we are proposing relatively minor changes to the River Center Façade at Commerce Street. More specifically, this will occur between the existing parking structure and the adjacent Margarittville lease space. The proposed changes will involve squaring off the two piers in that area and creating a flatter façade. These piers will be veneered with a full height exterior ceramic tile finish. Yard House is sensitive to the historic nature of the building and its surroundings and has selected a tile color that is harmonious and complimentary to the existing earth tones in the area. The center portion between these piers will be articulated with a slightly recessed face to accept light boxes and fins to hold the proposed Yard House sign. These fins will be slightly projected from the building face and will be veneered with prefinished black metal. As such, the sign will be slightly projected toward Commerce Street with the light boxes serving as a backdrop. The proposed coping and trim in and around the light boxes and piers will consist of prefinished black metal. The uppermost decorative banding will remain as currently designed and approved with the exception of veneering it in prefinished black metal. New light fixtures are proposed on each of the pier elements facing Commerce Street. A small menu box is planned for the inside face of one pier which will face perpendicular to Commerce Street. The piers will be finished on all four faces and the existing storefront, which is set back behind the proposed Yard House façade, will remain as previously designed and approved with the exception that some spandrel glass will be required. All such spandrel glass will match the existing in-place spandrel panels. A vertical sign is proposed on the westernmost pier to create a sign presence perpendicular to Commerce Street to enhance vehicular and pedestrian visibility.

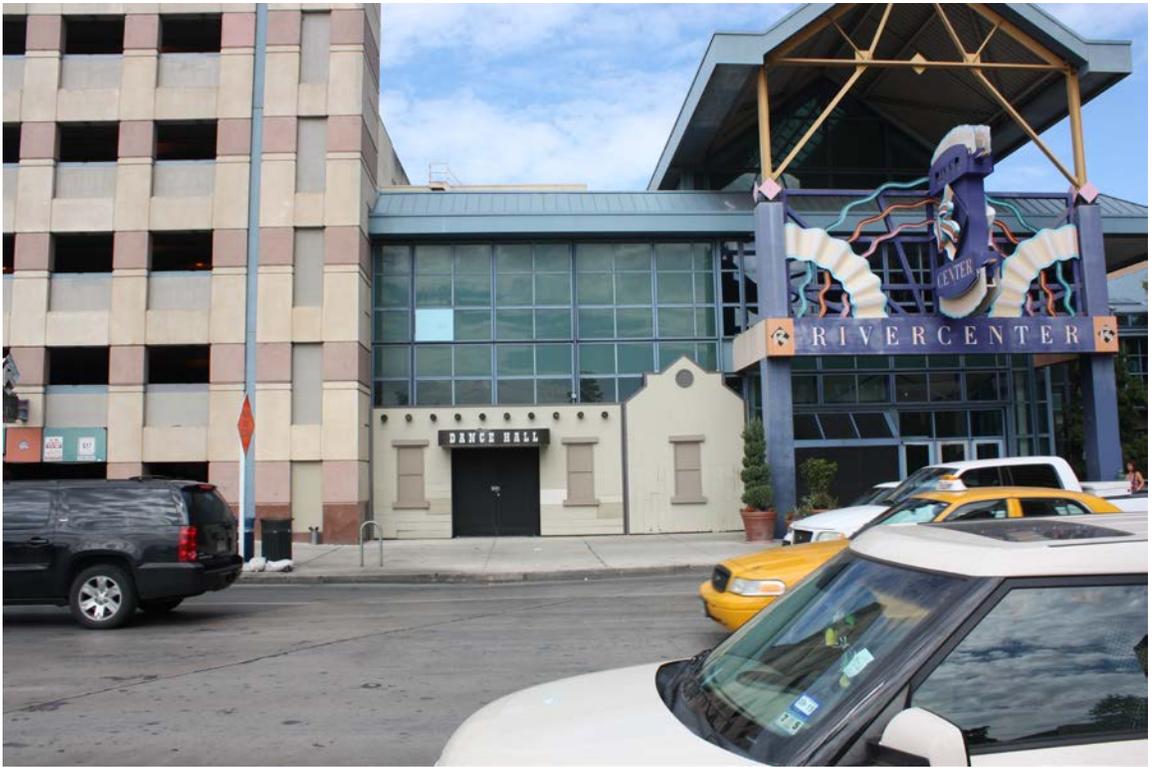
#### **Bridge Dining Over River/Ceiling Above Pedestrian Walkway:**

The underside of the Yard House “Bridge Dining” must be fully accessible in order to install the necessary mechanical (HVAC) systems for the renovation. As such, the existing drywall/plaster ceiling must be removed. After the new Yard House HVAC systems are in place, a new replacement ceiling will be provided. In an effort to maintain a neat, clean appearance, a removable prefinished aluminum Hunter Douglas “Spring Torsion” panel system is proposed. These panels will be butted together with thin joints in a 30”x30” configuration. The proposed color will be “Cotton White”. All existing light fixtures and life safety devices will be reinstalled back to their original locations. As previously noted, this system (or portions thereof) is easily removable in the event that items need to be accessed for replacement or if major maintenance is required at a later date. The same system can then be reinstalled with minimal effort and time.



## **THE FOLLOWING REPRESENTS THE OVERALL SPACE WITHIN THE RIVERCENTER MALL**

- EXISTING FAÇADE ALONG EAST COMMERCE
- AREAS OF PROPOSED SIGNAGE FACING THE RIVER
- CEILING ABOVE PEDESTRIAN WALKWAY OVER RIVER
- OVERALL VIEWS AROUND THE SITE
- RIVERCENTER OVERALL STREET LEVEL PLAN WITH YARD HOUSE FAÇADE/ENTRY
- MAP OF PROPERTY WITH DETAILS



Real Estate  
Development  
Services  
Site Development  
Architecture  
Construction Manag.



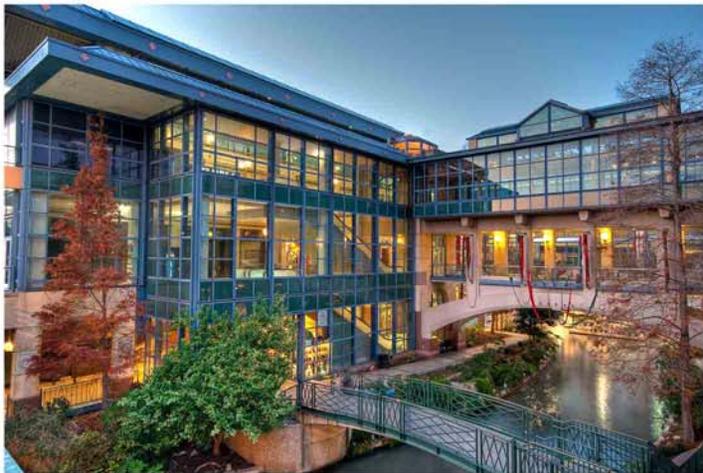
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THE ALAMO

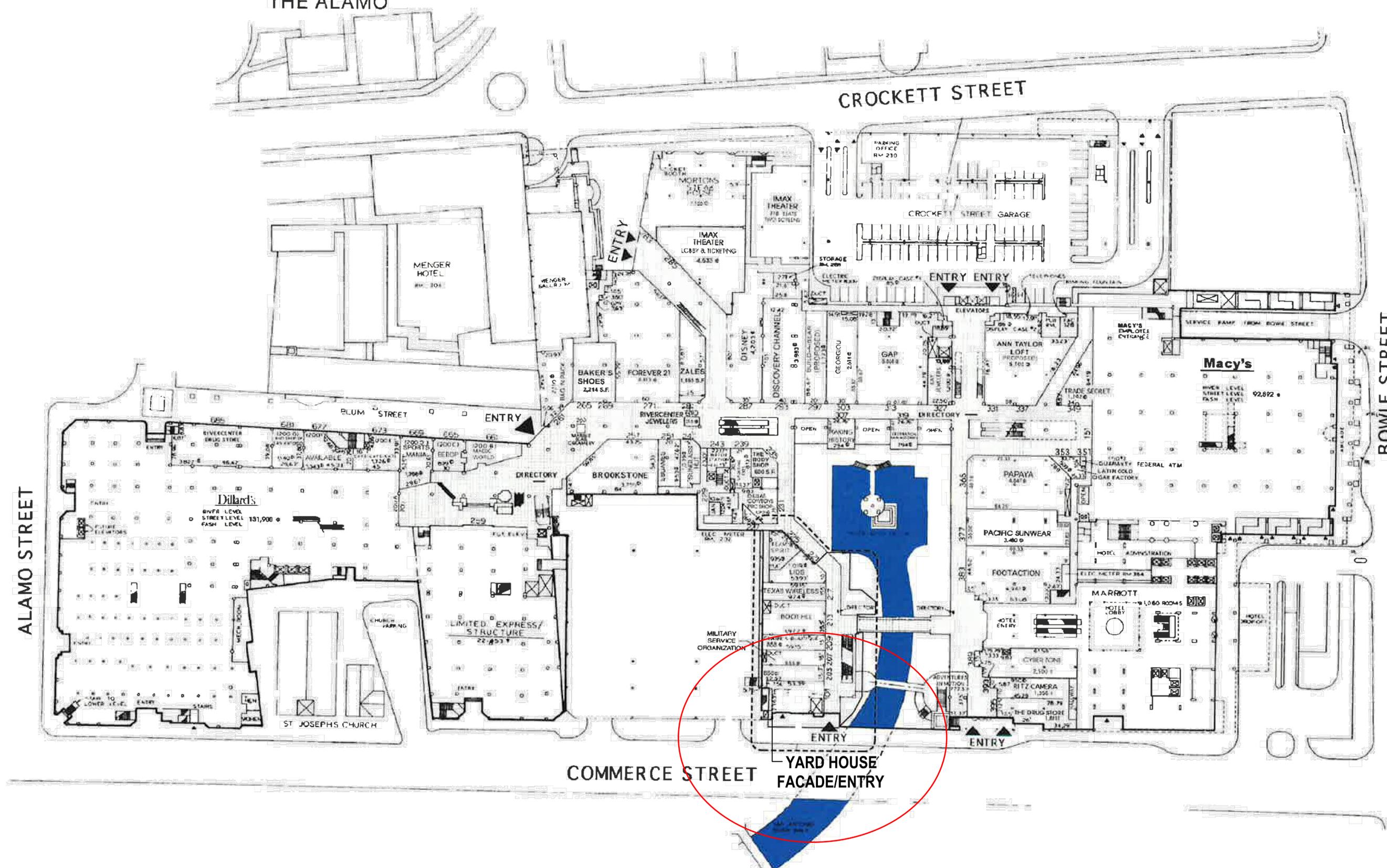
CROCKETT STREET

BOWIE STREET

ALAMO STREET

COMMERCE STREET

YARD HOUSE  
FACADE/ENTRY



The Roberts Group  
PSC  
2880 Southland Drive - Lexington, KY 40503  
859-276-0000 / 859-276-2801 Faxline  
REGISTRATION # 9338

PROJECT NUMBER  
14077



Issue Date: 07/16/15

Restaurant #: 8362

YARD HOUSE  
RIVERCENTER MALL  
849 E. COMMERCE ST.  
SAN ANTONIO, TX

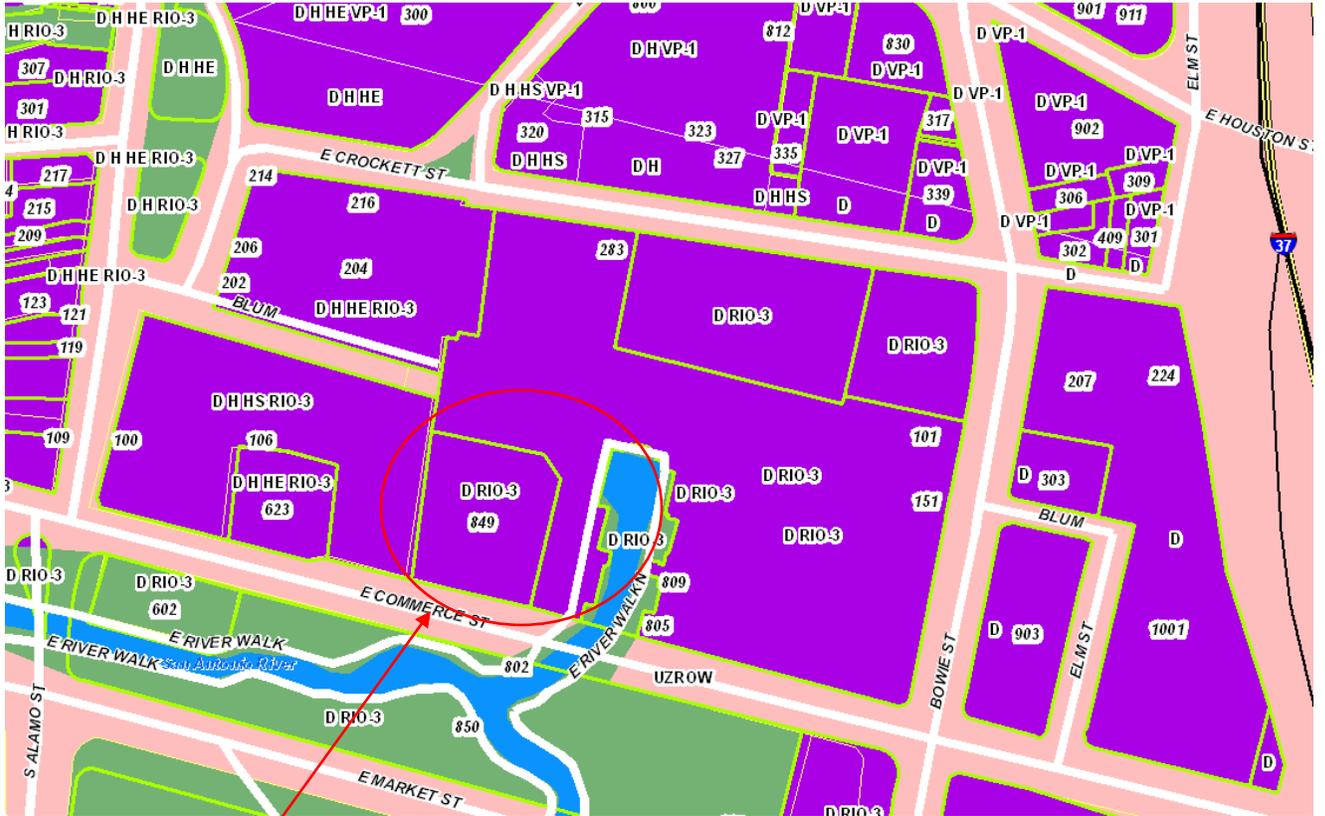
Drawing  
OVERALL  
SITE PLAN

SP-1

OVERALL STREET LEVEL SITE PLAN



## 849 E. Commerce – Rivercenter Mall



Location of proposed improvements

## Bexar CAD - Map of Property ID 111404 for Year 2015



### Property Details

#### Account

Property ID: 111404  
Geo ID: 01010-002-0302  
Type: Real  
Legal Description: NCB 1010 BLK 2 LOT 4.0287AC OF 30 (RIVERCENTER MALL)

#### Location

Situs Address: 849 E COMMERCE ST SAN ANTONIO, TX 78205  
Neighborhood: NBHD code10011  
Mapsco: 616F5  
Jurisdictions: 08, 09, 10, 11, 57, CAD, 06, 21

#### Owner

Owner Name: NEW RIVERCENTER MALL II LP  
Mailing Address: , 433 5TH AVE STE 200, NEW YORK, NY 10016-2207

#### Property

Appraised Value: \$49,032,821.00

<http://www.bcad.org/Map/View/Map/1/111404/2015>

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Map Disclaimer: This product is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. The Bexar County Appraisal District expressly disclaims any and all liability in connection herewith.



## **YARD HOUSE SIGNAGE**

- EXTERIOR SIGNAGE SET



Rivercenter Mall  
San Antonio, TX

Store #TBD

July 30, 2015 - Exterior Sign Submittal



Ph: 1 . 800 . 599 . 7696

Fax: 1 . 574 . 237 . 6166

[www.siteenhancementservices.com](http://www.siteenhancementservices.com)

# Floor Plans - EXTERIOR SIGNAGE

- A** YH-50 Wall Sign: 50.75 SF

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- B** 12'-6" x 1'-8" Blade Sign: 20.83 SF

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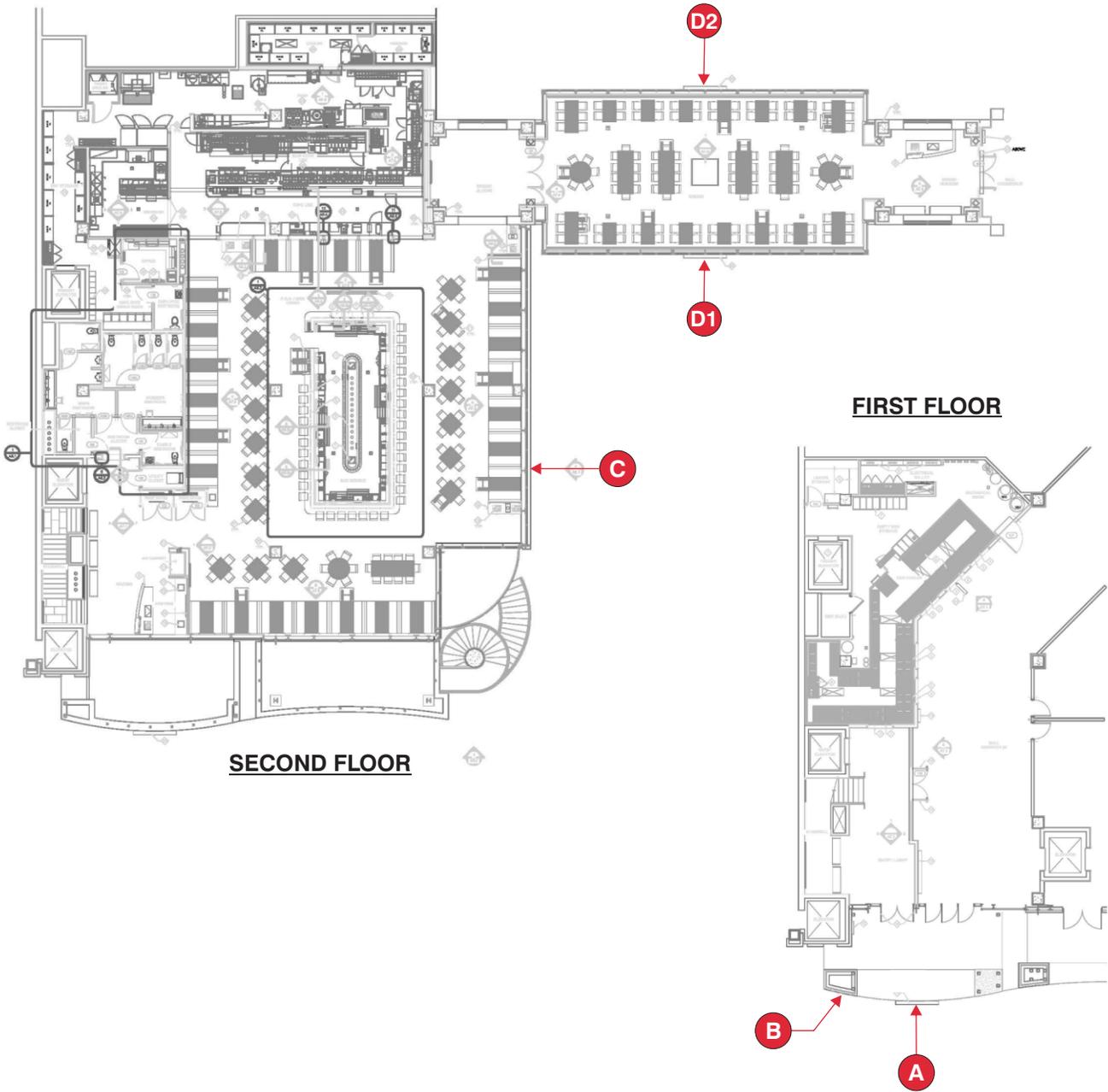
- C** Custom Wall Sign: 8 SF

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- D1** Custom Wall Sign Behind Window Glass: 16 SF

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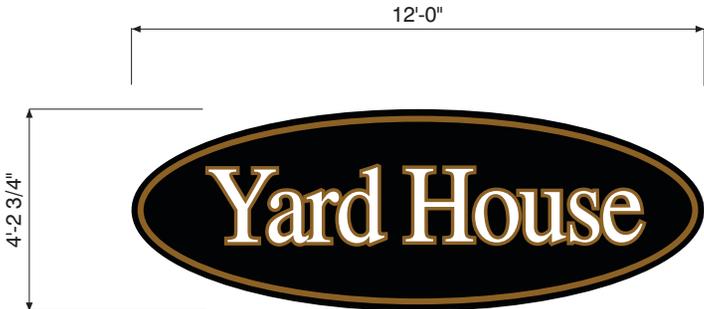
- D2** Custom Wall Sign Behind Window Glass: 16 SF



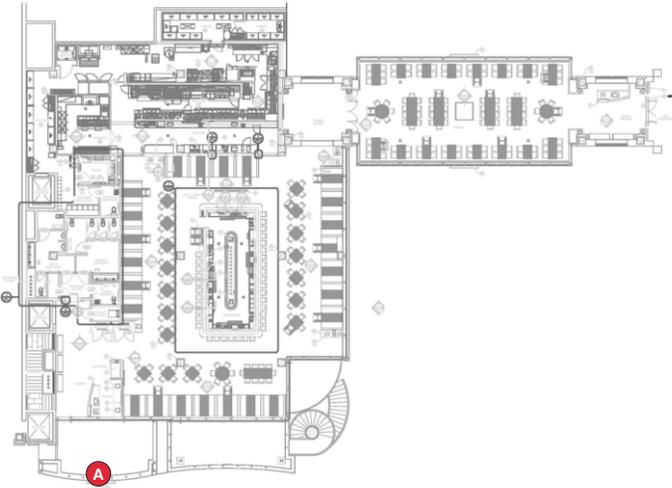
Exterior Front Elevation



Scale: 1/16" = 1'



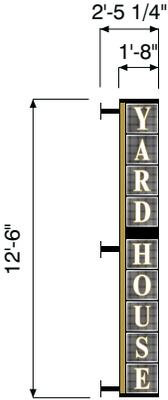
50 SF Wall Sign  
 Utilized Square Footage: 50.75  
 Scale: 1/4" = 1'



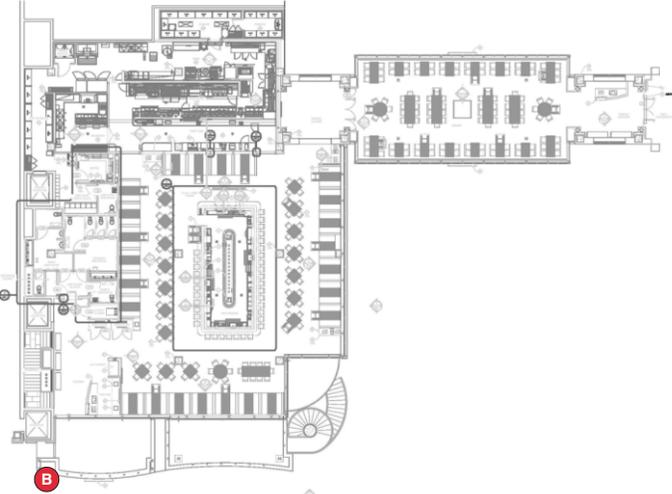
Exterior Front Elevation



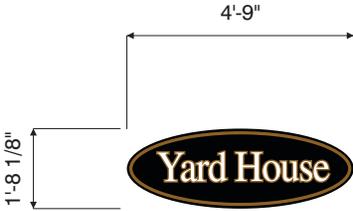
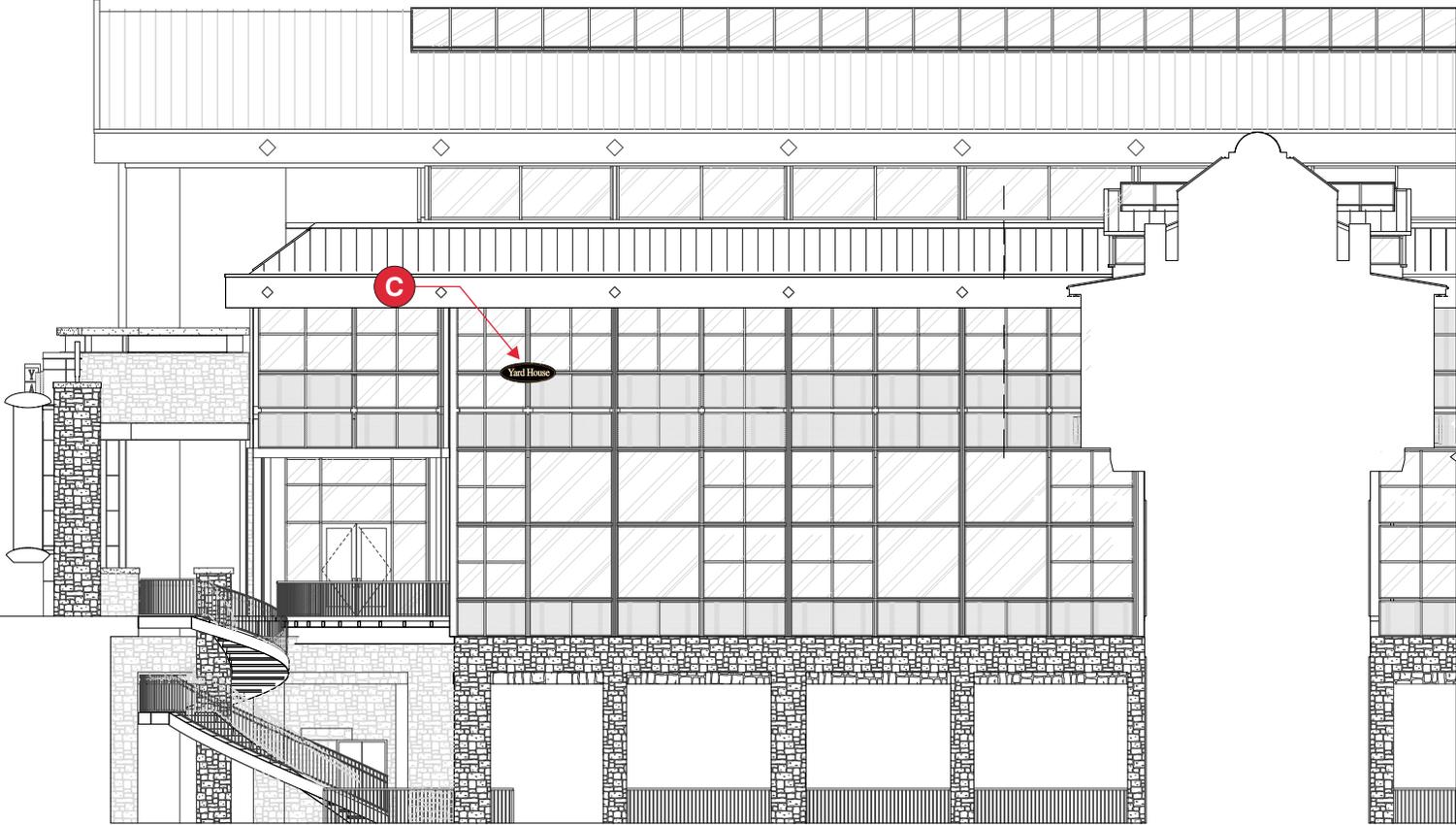
Scale: 1/16" = 1'



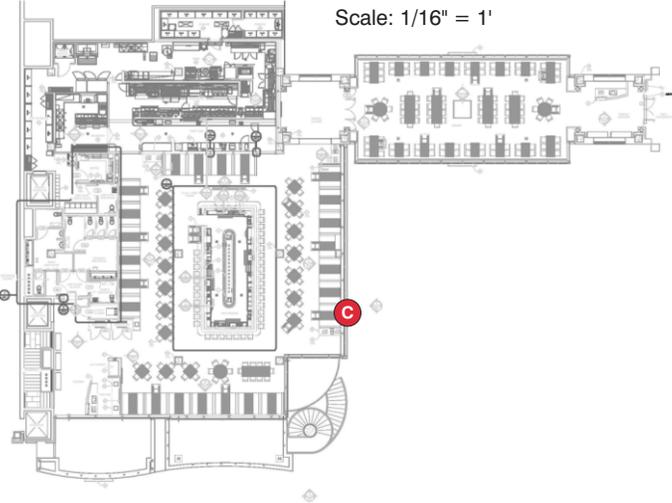
20 SF Marquee Blade Sign  
 Utilized Square Footage: 20.83  
 Scale: 1/8" = 1'



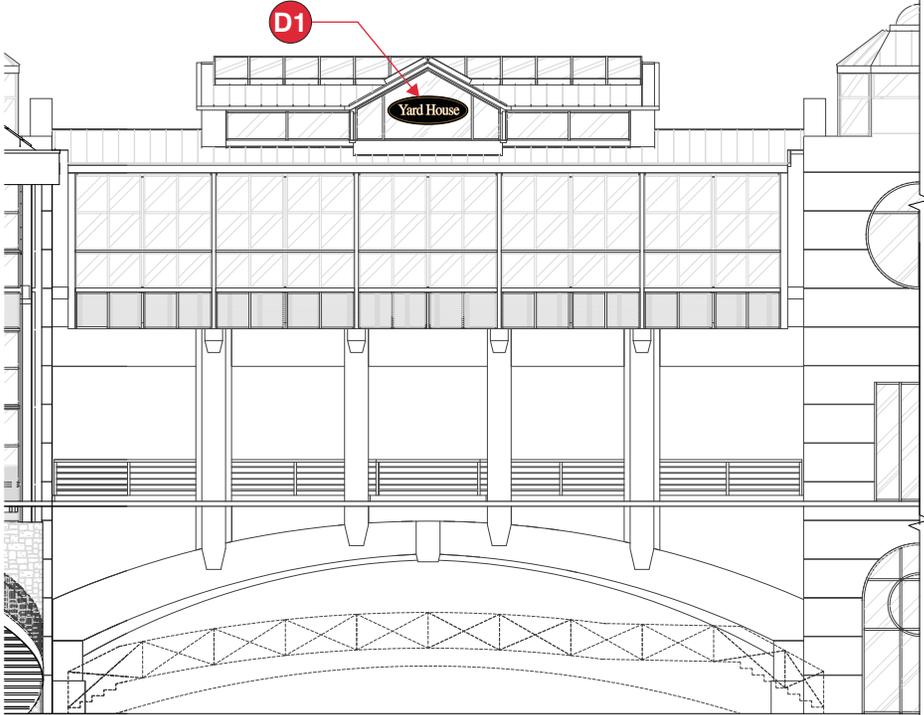
# Exterior Right Elevation



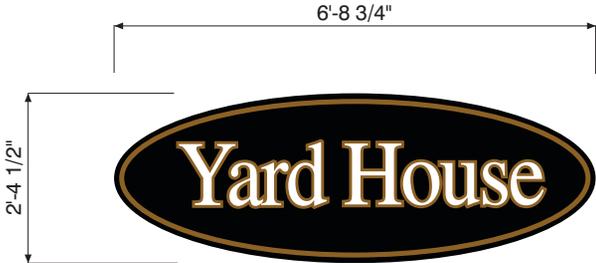
Custom 8 SF Wall Sign  
 Utilized Square Footage: 8  
 Scale: 1/4" = 1'



Exterior Front Elevation

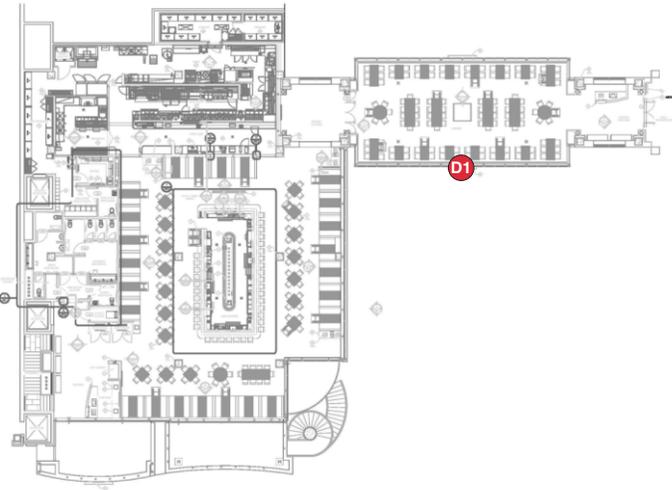


Scale: 1/16" = 1'

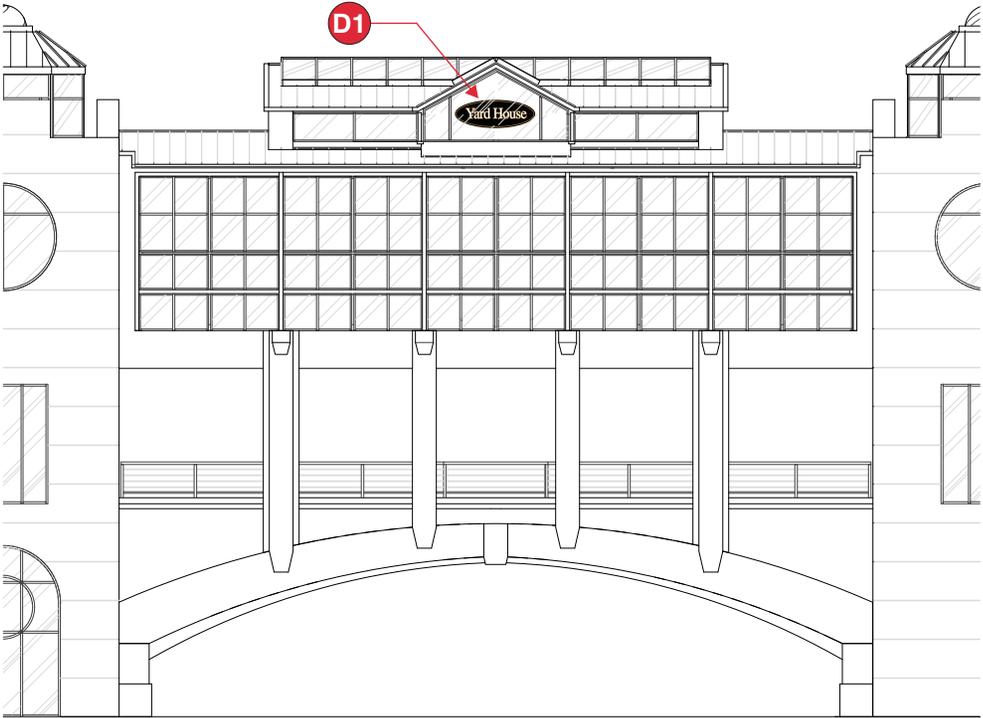


Custom 16 SF Wall Sign  
 Utilized Square Footage: 15.98  
 Scale: 3/8" = 1'

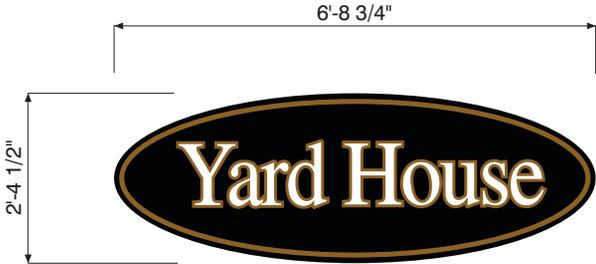
Signs located behind the glass.



Exterior Front Elevation

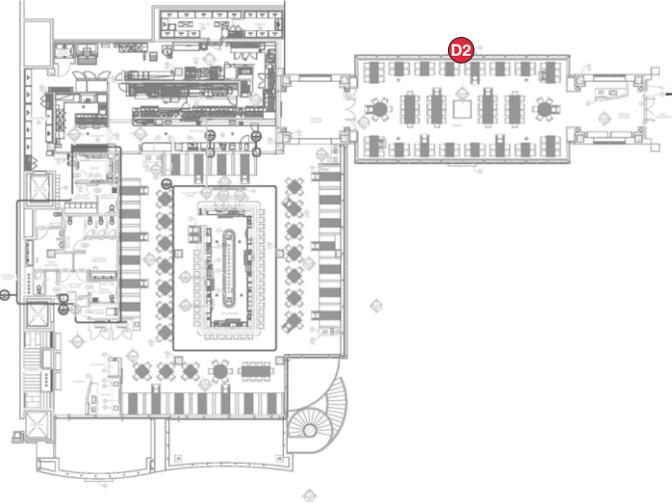


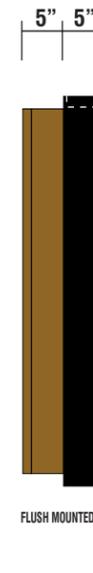
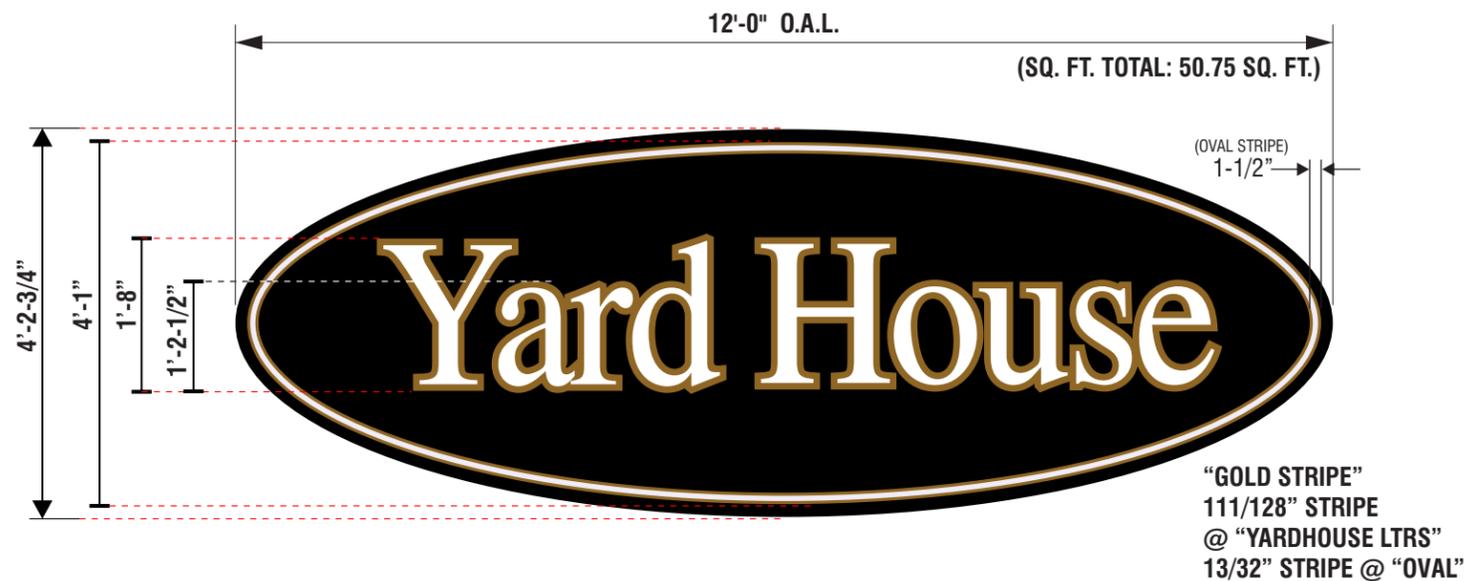
Scale: 1/16" = 1'



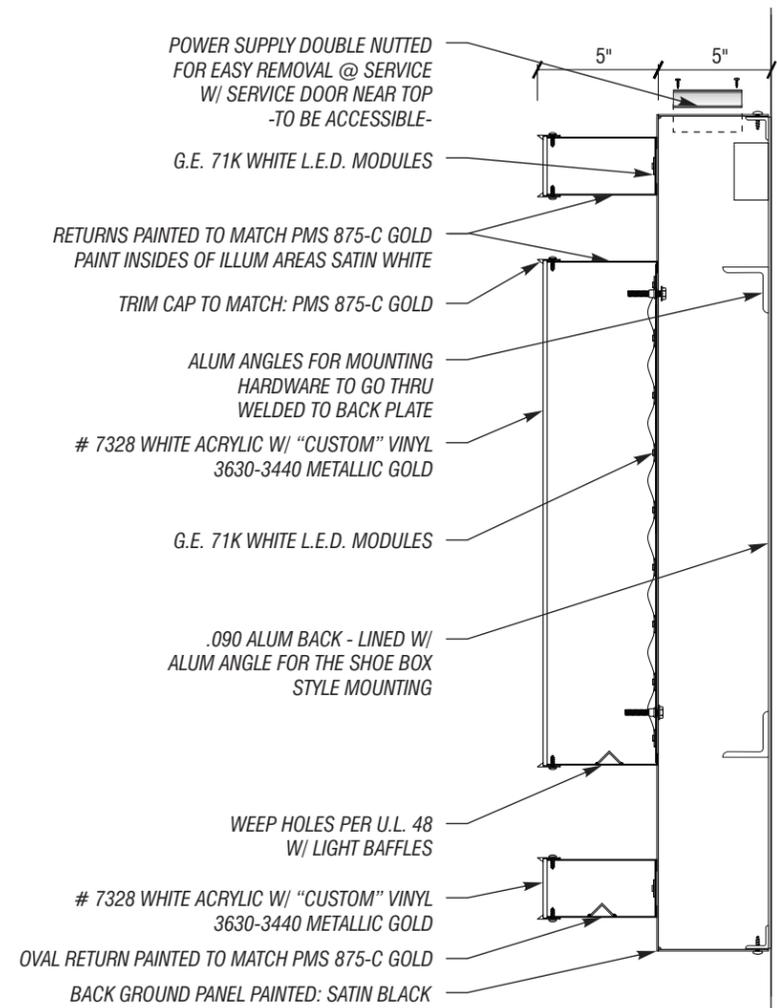
Custom 16 SF Wall Sign  
 Utilized Square Footage: 15.98  
 Scale: 3/8" = 1'

**Signs located behind the glass.**





**SIDE VIEW**  
SCALE: 1/2" = 1'-0"



**SECTION DETAIL**  
SCALE: 1-1/2" = 1'-0"

**A**

**GENERAL SPECIFICATIONS:**

- **NON- ILLUMINATED BACKGROUND PANEL: 5" DEEP ALUM PAINTED SATIN BLACK. BACK SHOE BOX TYPE PANEL FOR FLUSH MOUNT TO WALL.**
- **YARD HOUSE CHANNEL LETTERS HAVE 7328 WHITE ACRYLIC FACES W/ "CUSTOM STRIPE" VINYL 3630-3440 METALLIC GOLD, ILLUMINATED W/ G.E. 71K WHITE L.E.D.'s. RETURNS & TRIM CAP ARE PAINTED TO MATCH PMS 875-C GOLD.**
- **FACE ILLUMINATION BORDER: FACE LIT CHANNEL. FACE IS 7328 WHITE ACRYLIC W/ 3630-3440 METALLIC GOLD,"CUSTOM STRIPING" AND IS ILLUMINATED W/ G.E. 71K WHITE L.E.D.'s RETURN & TRIM CAP ARE PAINTED TO MATCH: PMS 875-C GOLD**

ELECTRICAL REQUIREMENTS
Total: <u>T.B.D.</u> Amps
(T.B.D.) 120V 20A Circuit Required.
<small>ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.</small>

**CUSTOMER TO PROVIDE:**

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN (WITHIN 5 FT.) TO BE BY CERTIFIED ELECTRICIAN: **Notes:**

- A. All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
- B. Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.
- C. Properly sized ground wire that can be traced back to the breaker panel must be provided.
- D. Number and size of circuits for each sign to meet Federal Heath Sign's requirement.

Any deviation from the above recommendations may result in:

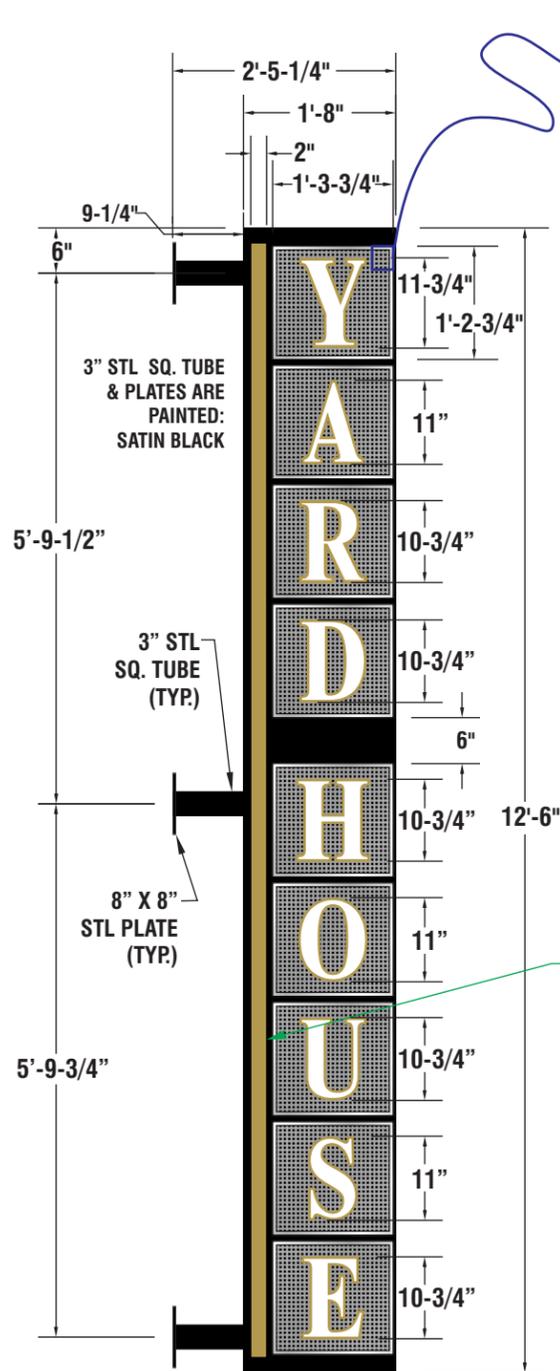
1. Damage to or improper operation of the sign(s).
2. Delays and additional costs.

- ⚠ Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
- ⚠ Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.

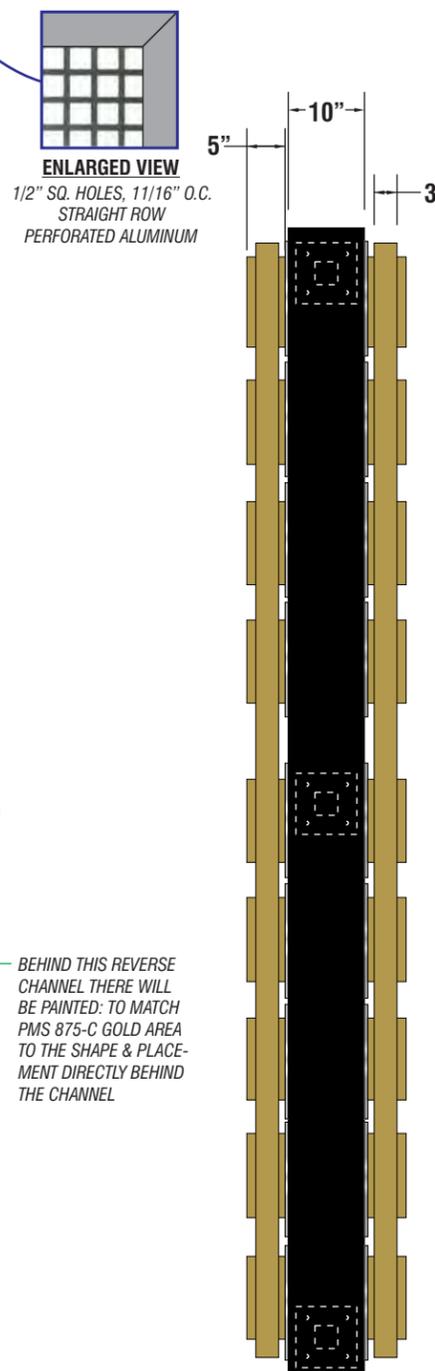
**INSTALLER IS RESPONSIBLE FOR:**

ELECTRICAL NOTES:

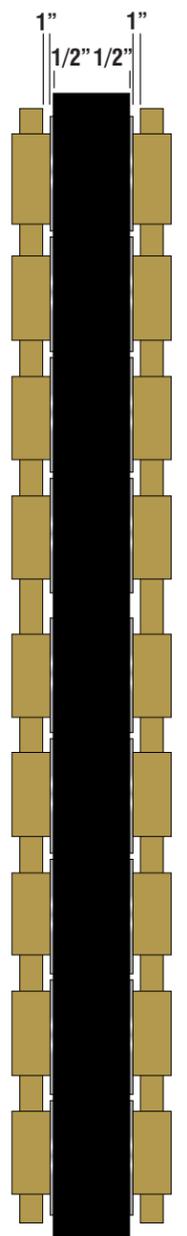
1. INSTALLATION OF THESE (ELECTRICAL) SIGNS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 600 OF THE N.E.C., U.L. 48 AND / OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.
2. PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.



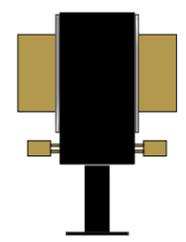
LEFT SIDE VIEW



REAR VIEW



FRONT VIEW



PLAN VIEW

BEHIND THIS REVERSE CHANNEL THERE WILL BE PAINTED: TO MATCH PMS 875-C GOLD AREA TO THE SHAPE & PLACEMENT DIRECTLY BEHIND THE CHANNEL

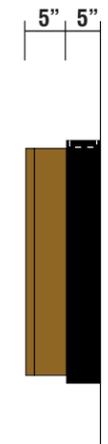
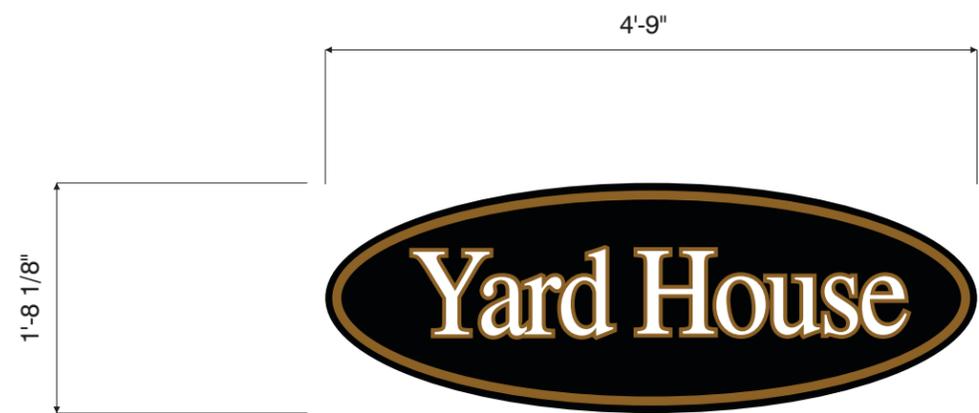
**CUSTOMER TO PROVIDE:**  
 (For New / Remodel Construction) ADEQUATE BEHIND THE WALL BACKING AND ACCESS AS REQUIRED TO INSTALL SIGNAGE. CUSTOMER TO FORWARD COPY OF FINAL APPROVED SIGNAGE DRAWINGS TO BUILDING SITE CONTACT SO THAT THESE PROVISIONS CAN BE MADE DURING CONSTRUCTION AND PRIOR TO SIGN INSTALLATION. ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN (WITHIN 5 FT.) TO BE BY CERTIFIED ELECTRICIAN.  
 A. All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).  
 B. Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.  
 C. Properly sized ground wire that can be traced back to the breaker panel must be provided.  
 D. Number and size of circuits for each sign to meet Federal Heath Sign's requirement.  
 Any deviation from the above recommendations may result in:  
 1. Damage to or improper operation of the sign(s).  
 2. Delays and additional costs.  
**Notes:** Ⓞ Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.  
 Ⓞ Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.

**INSTALLER IS RESPONSIBLE FOR:**  
 ★PROVIDING AND INSTALLING ALL COMPONENTS REQUIRED TO RUN SECONDARY WIRING (CONNECTORS, GTO CONDUIT, ETC.) TO BE DETERMINED BY LOCAL CODE AND SITE CONDITIONS.  
 ★PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.  
 ★SEALING BUILDING PENETRATIONS WITH SILICONE TO PREVENT MOISTURE PENETRATION @ EXTERIOR LOCATIONS..

**NOTE: UPON CUSTOMER ACCEPTANCE, FEDERAL HEATH ENGINEERING DEPT. WILL PROVIDE FABRICATION DRAWINGS AND ENGINEERED SEAL DRAWINGS IF REQUIRED.**  
**"THIS DRAWING IS FOR PRESENTATION ONLY"**

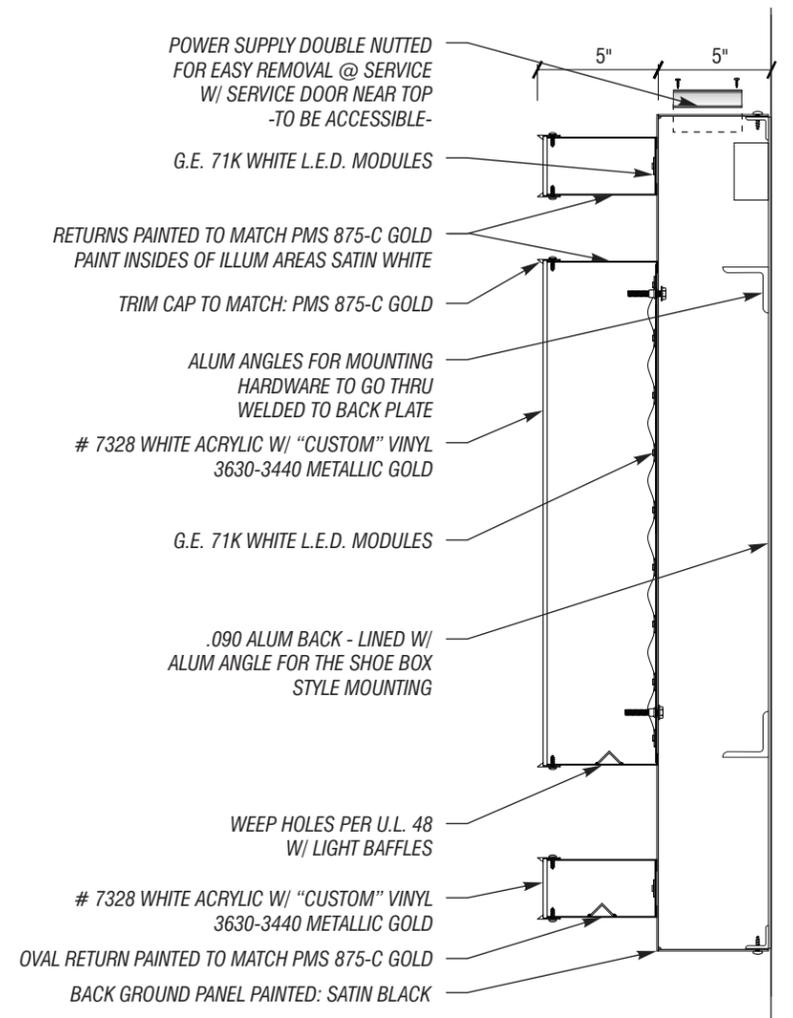
- GENERAL SPECIFICATIONS:
- FABRICATED ALUMINUM SIGN CABINET PAINTED: SATIN BLACK PERFORATED ALUMINUM PANEL ACCENTS W/ 1/2" X 1/2" ANGLE TRIM PAINTED: BRUSHED ALUMINUM.
  - "YARDHOUSE" CHANNEL LETTERS HAVE #7328 WHITE ACRYLIC FACES W/ "CUSTOM" 3630-3440 METALLIC GOLD VINYL & ARE ILLUMINATED W/ G.E. 71K WHITE L.E.D.'s. RETURNS & TRIMCAP PAINTED TO MATCH PMS 875-C GOLD.
  - ACCENT STRIPE @ LEFT OF LETTERS IS PAINTED TO MATCH # 875-C GOLD, ACCENT STRIPE HAS A CLEAR LEXAN BACK W/ 2nd SURFACE DIFFUSER FILM. INTERNALLY ILLUMINATED W/ 71K WHITE L.E.D.'s FOR HALO EFFECT. PAINT STRIPE ON CABINET DIRECTLY BEHIND STRIPE TO MATCH PMS 875-C GOLD TO ACCENTUATE HALO EFFECT.
  - MOUNT TO FASICA W/ TYPICAL 3: SQ. TUBE & PLATES THEY ARE TO BE PAINTED: SATIN BLACK.

ELECTRICAL REQUIREMENTS	
Total:	<u>I.B.D.</u> Amps
<u>(I.B.D.)</u> 120V 20A Circuit Required.	
ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.	



**SIDE VIEW**

SCALE: 3/4" = 1'-0"



**SECTION DETAIL**

SCALE: 1-1/2" = 1'-0"

**CUSTOM SIZE REQUIRES CUSTOM SPECS FROM SIGN COMPANY**

**GENERAL SPECIFICATIONS:**

- **NON- ILLUMINATED BACKGROUND PANEL: 5" DEEP ALUM PAINTED SATIN BLACK. BACK SHOE BOX TYPE PANEL FOR FLUSH MOUNT TO WALL.**
- **YARD HOUSE CHANNEL LETTERS HAVE 7328 WHITE ACRYLIC FACES W/ "CUSTOM STRIPE" VINYL 3630-3440 METALLIC GOLD, ILLUMINATED W/ G.E. 71K WHITE L.E.D.'s. RETURNS & TRIM CAP ARE PAINTED TO MATCH PMS 875-C GOLD.**
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ELECTRICAL REQUIREMENTS	
Total:	T.B.D. Amps
(T.B.D.) 120V 20A Circuit Required.	
ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.	

**CUSTOMER TO PROVIDE:**

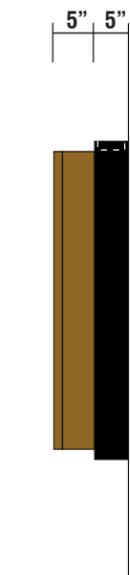
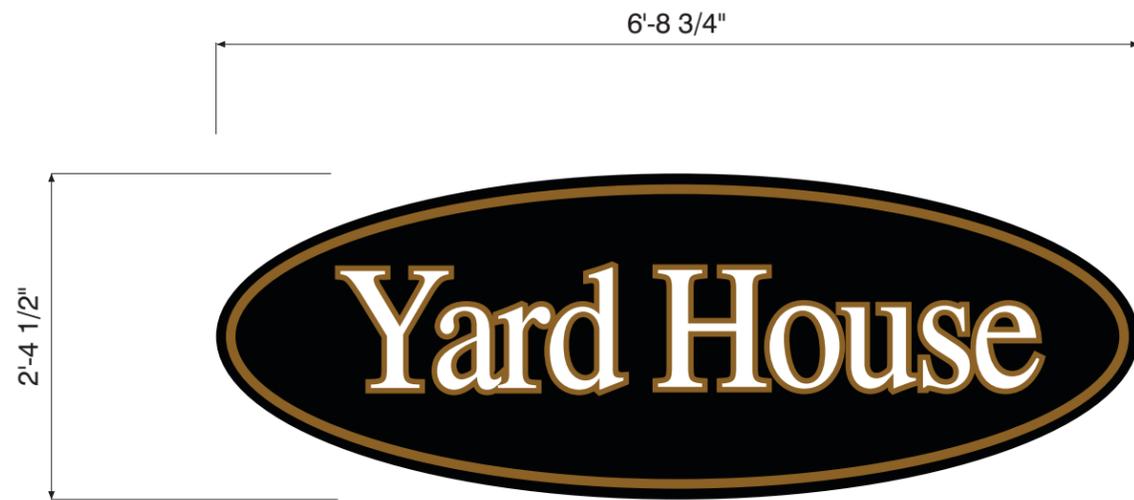
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1. Damage to or improper operation of the sign(s).
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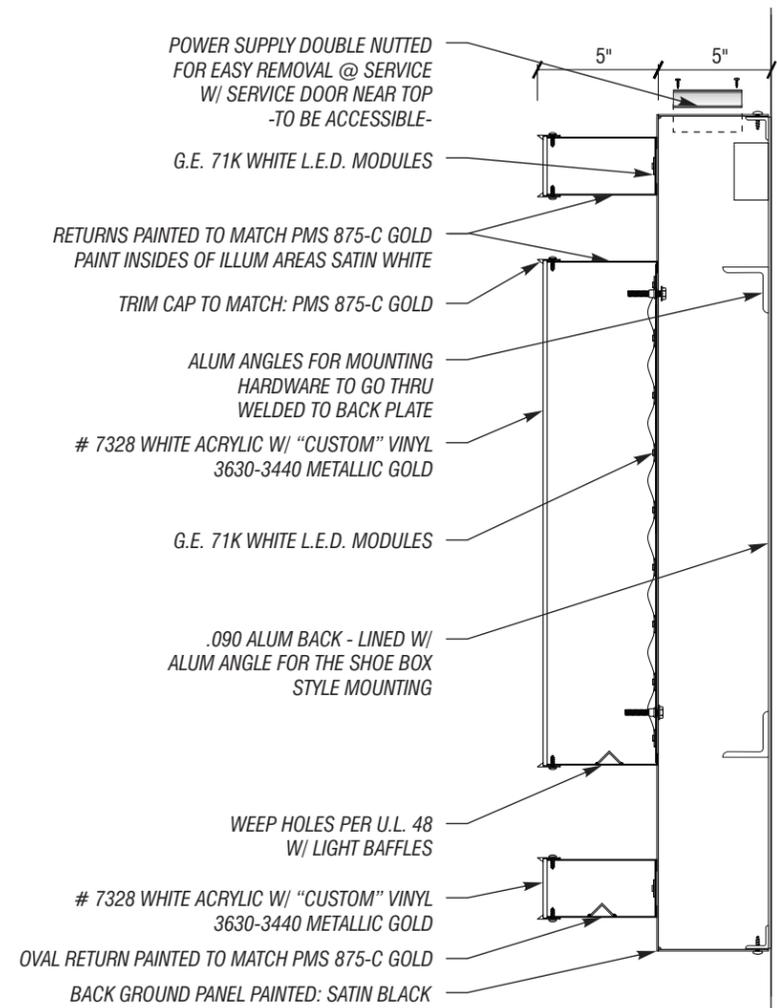
**INSTALLER IS RESPONSIBLE FOR:**

- ELECTRICAL NOTES:
1. INSTALLATION OF THESE (ELECTRICAL) SIGNS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 600 OF THE N.E.C., U.L. 48 AND / OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.
  2. PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.



SIDE VIEW

SCALE: 3/4" = 1'-0"



SECTION DETAIL

SCALE: 1-1/2" = 1'-0"

**CUSTOM SIZE REQUIRES CUSTOM SPECS FROM SIGN COMPANY**

D1 D2

**GENERAL SPECIFICATIONS:**

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ELECTRICAL REQUIREMENTS	
Total:	T.B.D. Amps
<small>(T.B.D.) 120V 20A Circuit Required.</small>	
<small>ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.</small>	

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2. PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.



## YARD HOUSE FIRST FLOOR FAÇADE / TENANT SPACE

- YARD HOUSE CONCEPT RENDERINGS
- PROPOSED FAÇADE FINISHES
- PLANS, ELEVATIONS, DETAILS OF PROPOSED WORK
  - A1.1, A1.2, A2.1, A2.2, A2.3, A2.4, A2.5, A3.1, A4.1



Real Estate  
Development  
Services  
Site Development  
Architecture  
Construction Manag.



## ENTRY FAÇADE MATERIALS

### **Exterior Tile:**

Material Mode Metropolis Color Sand 32x32  
 Installation mortar system  
 Waterproofing- Laticrete Hydro Ban  
 Mortar- Laticrete 254  
 Grout- Permacolor or Permacolor Select



### **Prefinished Metal:**

Brake Metal Cladding: 3mm prefinished alum.  
 Composite – Matte Black MJ062 (G30) –  
 Mitisubishi Plastics – Alpolic / FR  
 Brake Metal Trim/Flashing: .032 prefinished alum.  
 Break Metal – Top Black 4TOB-G15 – Mitisubishi  
 Plastics – Alpolic Brake Metal



**Backlit Panel / Light Boxes:**

Aluminum frame with Opaque Acrylic Lens on the front face.

**Lights / Sconces (at each pier):**

TMS Lighting – Alpine Sconce  
Type WF2



**Ceiling Beneath Bridge Dining Over River:**

Panels to be 30"x30" Cotton White  
Exterior Torsion Spring Ceiling System as  
Manufactured by Hunter Douglas Architectural  
Products, Inc.



# Mode

glazed rectified colored-body porcelain floor tile • PEI IV • STS M



floor tile 32" x 32", 16" x 32", 8" x 32" (All sizes are modular)



Sand



Grey



Titan



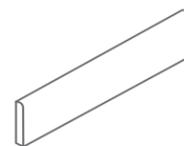
Slate

decorative (Available in all colors)

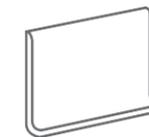


Linear Mosaic  
12" x 16"

trim (Available in all colors)



Surface Bullnose  
3" x 16"



Cove Base  
6" x 12"



Cove Base Corner  
Exterior  
1" x 6"



Cove Base Corner  
Interior  
1" x 6"



Titan



# HYDRO BAN®

DS-663.0-0515

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

HYDRO BAN®

## 2. MANUFACTURER

LATICRETE International, Inc.  
1 LATICRETE Park North  
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235  
Toll Free: 1.800.243.4788, ext. 235  
Fax: +1.203.393.1684  
Internet: [www.laticrete.com](http://www.laticrete.com)

## 3. PRODUCT DESCRIPTION

HYDRO BAN is a thin, load bearing waterproofing/crack isolation membrane that DOES NOT require the use of fabric in the field, coves or corners. HYDRO BAN is a single component self-curing liquid rubber polymer that forms a flexible, seamless waterproofing membrane. HYDRO BAN bonds directly to a wide variety of substrates.

### Uses

- Interior and exterior
- Swimming pools, fountains and water features
- Shower pans, stalls and tub surrounds
- Industrial, commercial and residential bathrooms and laundries
- Spas and hot tubs
- Kitchens and food processing areas
- Terraces and balconies over unoccupied spaces
- Countertops and facades
- Steam rooms (when used in conjunction with a vapor barrier)

### Advantages

- Allow for flood testing in 2 hours at 70°F (21°C) or higher\*
- Does not require the use of fabric<sup>^</sup>
- Bonds directly to metal, PVC and ABS plumbing fixtures only
- Thin; only 0.020–0.030" (0.5–0.8 mm) thick when cured
- Changes in color from a light sage to an olive green when cured
- Anti-fracture protection of up to 1/8" (3 mm) over shrinkage and other non-structural cracks
- "Extra Heavy Service" rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test)
- Exceeds ANSI A118.10 and A118.12
- IAPMO approved
- Equipped with anti-microbial technology
- Rapid drying for a faster time to tile
- Lighter color for ease of inspection
- Safe—no solvents and non-flammable
- Install tile, brick and stone directly onto membrane

<sup>^</sup> For gaps 1/8" (3 mm) or less see DS 663.5 for complete instructions

¥ Refer to cautions section for more information on curing

### Suitable Substrates

- Concrete
- Concrete & Brick Masonry
- Cement Mortar Beds
- Cement Plaster
- Gypsum Wallboard\*
- Exterior Glue Plywood\*
- Ceramic Tile & Stone\*\*
- Cement Terrazzo\*\*
- Cement Backer Board\*\*\*
- Poured Gypsum Underlayment†

\* Interior applications only.

\*\* If skim coated with a Latex Thin-Set Mortar.

\*\*\*Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

† Interior use only. Follow TCNA Guidelines/ Methods: F200, RH111, RH122, F180

### Packaging

Commercial Unit: 5 gal (18.9 L) pail liquid (36 commercial units/pallet)

Mini Unit: 4 x 1 gal (3.8 L) pails of liquid packed in a carton (30 cartons/pallet)

### Approximate Coverage

Commercial Unit: 250 ft<sup>2</sup> (23.2 m<sup>2</sup>)

Mini Unit: 50 ft<sup>2</sup> (4.6 m<sup>2</sup>)

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years\* if stored at temperatures >32°F (0°C) and <110°F (43°C).

## Limitations

- DO NOT bond to OSB, particle board, interior glue plywood, luan, Masonite® or hardwood surfaces.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use HYDRO BAN®.
- Do not use as a primary roofing membrane over occupied space. For more information in installation of tile over wood decks, or, over occupied or finished spaces please refer to TDS 157 "Exterior Installation of Tile and Stone Over Occupied Space."
- Do not use over dynamic expansion joints, structural cracks or cracks with vertical differential movement (See HYDRO BAN Installation Instructions, DS 663.5 for complete instructions).
- The installation of Waterproofing Membranes in submerged applications must be installed in a manner that creates a continuous "waterproof pan effect" without voids or interruptions. Therefore, applying waterproofing membranes in limited areas (e.g. solely at the waterline) in submerged applications is not recommended.
- Do not use over cracks >1/8" (3 mm) in width.
- Do not use as a vapor barrier (especially in steam rooms).
- Do not expose unprotected membrane to sun or weather for more than 30 days.
- Do not expose to negative hydrostatic pressure, excessive vapor transmission, rubber solvents or ketones.
- Must be covered with ceramic tile, stone, brick, dry pack thick bed mortar beds, terrazzo or other traffic-bearing finish. Use protection board for temporary cover.
- Obtain approval by local building code authority before using product in shower pan applications.
- Do not install directly over single layer wood floors, plywood tubs/showers/fountains or similar constructs.
- Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.
- Not for use under self-leveling underlayments or decorative wear surfaces.

*Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations and L/600 for all exterior veneer applications where L=span length.*

## Cautions

Consult SDS for more safety information.

- Allow membrane to cure fully (typically 24 hours at 50°F – 69°F (10°C – 21°C) and 70% RH and 2 hours at 70°F (21°C) or higher and 50% RH before flood testing); flood test prior to applying tile or stone.
- Maximum amount of moisture in the concrete/mortar bed substrate should not exceed 5 lbs/1,000 ft<sup>2</sup> (283 µg/s m<sup>2</sup>)/ 24 hrs per ASTM F-1869 or 75% relative humidity as measured with moisture probes.
- During cold weather, protect finished work from traffic until fully cured.
- For white and light-colored marbles, use a white Latex Portland Cement Thin Set Mortar.

- For green and moisture sensitive marble, agglomerates and resin backed tile and stone use LATAPOXY® 300 Adhesive (refer to DS 633.0).
- Wet coat thickness is 0.015 to 0.022" (0.4 to 0.6 mm) per coat. Use a wet film thickness gauge to check thickness.
- Allow wet mortars to cure for 72 hours at 70°F (21°C) prior to installing HYDRO BAN. Allow HYDRO BAN a minimum 2 hours cure at 70°F (21°C) prior to flood testing in these conditions.
- Protect from exposure to traffic or water until fully cured.
- HYDRO BAN will go from a light sage green to a darker olive green when fully cured. The second coat should not be applied until the first coat is fully cured. All flood test times should be after the second coat is fully cured with no light sage areas showing.

## 4. TECHNICAL DATA

### Approval

- ICC Evaluation Service Report ESR-2417
- IAPMO/Uniform Plumbing Code File No.3524
- Los Angeles Board of Building and Safety Commissioners File Number: M-070162
- City of Philadelphia Plumbing Advisory Board Case Number: 4624
- City of Tampa Construction Services Division

### VOC/LEED Product Information



This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program. For Chemical Emissions. For Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

### Applicable Standard

ANSI A118.10 and A118.12

Specifications are subject to change without notification. Technical data shown in LATICRETE product data sheets and technical data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors

## Physical Properties

Physical Property	Test Method	HYDRO BAN®
7-day Hydrostatic Test	ANSI A118.10	Pass
7-day Breaking Strength	ANSI A118.10	265–300 psi (1.8–2.1 MPa)
7-day Water Immersion	ANSI A118.10	95–120 psi (0.7–0.8 MPa)
7-day Shear Bond	ANSI A118.10	200–275 psi (1.4–1.9 MPa)
28-day Shear Strength	ANSI A118.10	214–343 psi (1.5–2.3 MPa)
System Crack Resistance Test	ANSI A118.12.5.4	Pass (High)
Water Vapor Transmission	ASTM E 96–00 <sup>E1</sup> Procedure B	0.515 grains/h • ft <sup>2</sup> (0.3602 g/h • m <sup>2</sup> )
Water Vapor Permeance	ASTM E 96–00 <sup>E1</sup> Procedure B	1.247 perms 71.21 (ng/Pa • s • m <sup>2</sup> )
System Performance	ANSI A118.10; ASTM C627; TCA Rating	cycles 1–14 "Extra Heavy"
Potability of Water Applicable to Waterproofing Systems	NBR 12170:2009 (Technical Norm from Brazil)	Pass
Tensile Strength for Elongation		250%
Thickness (Dried)		20–30 mils (0.5–0.8 mm)

The data in the above table shall be used by the Project Design Professional to determine suitability, placement, building code conformance and over-all construct appropriateness of a given installation assembly.

## Time to Tile

Substrate	Time to Tile (min.)****
Concrete	50
Cement Board	30
Fiber Cement Underlayment	15

\*\*\*\*After second coat is applied at 70°F (21°C) and 50% RH. The time to tile will vary depending on substrate, temperature and relative humidity.

## Working Properties

HYDRO BAN® can be applied using a paint brush, roller or trowel. All areas must have two coats to ensure waterproofing capabilities. When using a paint roller, substrate will not show through HYDRO BAN if coated with 0.020 – 0.030" (0.5 – 0.8 mm) of dried membrane. Color changes from a light sage to olive green **when fully cured**.

## 5. INSTALLATION

Refer to DS 663.5 for complete installation instructions prior to using product

### Surface Preparation

Surface temperature must be 50 – 90°F (10 – 32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough

or uneven concrete smooth to a wood float or better finish with a underlayment. Do not level with asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10 ft (6 mm in 3 m) with no more than 1/16" in 1 ft (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water— installation may be made on a damp surface. See DS 663.5 for information on installation over concrete.

1. Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, think brick and similar finishes. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations and L/600 for all exterior veneer applications where L=span length.

2. Minimum construction for interior plywood floors.

**SUBFLOOR:** 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

**UNDERLAYMENT:** 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors" for complete details.

### Bonding to TCNA Compliant Poured Gypsum Underlayment

Poured gypsum-based underlayments must meet TCNA requirements for compressive strength and the performance requirements of ASTM C627 for the anticipated service level designated by the design professional. Poured gypsum underlayment thickness and application varies, consult the manufacturer for specific recommendations. The underlayment must be dry and properly cured following the manufacturer's recommendations to achieve a permanent installation. Surfaces to be covered must be clean, structurally sound and meet the maximum allowable deflection standard of L/360 for ceramic tile and L/480 for stone under total anticipated load. Expansion joints must be installed in accordance with ANSI/TCNA guidelines. Prime all surfaces to receive HYDRO BAN with properly applied manufacturer's sealer or with a primer coat of HYDRO BAN, consisting of 1 part HYDRO BAN, diluted with 4 parts clean, cool tap water. In a clean pail, mix at low speed to obtain a homogeneous solution. The primer can be brushed, rolled or sprayed to achieve an even coat. Apply the primer coat to the floor at a rate of 250 to 300 ft<sup>2</sup>/gallon (6.1 to 7.5 M<sup>2</sup>/L) of diluted HYDRO BAN. Allow the primer coat to dry completely (approximately 24 hrs., depending on substrate and air temperature and humidity). When dry apply two full coats of HYDRO BAN® to the primed area following the guidelines in this data sheet and DS 663.5 HYDRO BAN Installation Instructions.

### **Pre-Treat Cracks & Joints**

Fill all substrate cracks, cold joints, and control joints to a smooth finish using a Latex Fortified Thin-Set. Alternatively, a liberal coat<sup>^^</sup> of HYDRO BAN applied with a paint brush or trowel may be used to fill in non-structural joints and cracks. Apply a liberal coat<sup>^^</sup> of HYDRO BAN approximately 8" (200 mm) wide over substrate cracks, cold joints, and control joints using a paint brush or roller (heavy napped roller cover). 6" (150 mm) Waterproofing/Anti-Fracture Fabric can be used to pretreat cracks, joints, curves, corners, drains and penetrations with HYDRO BAN.

### **Pre-Treat Coves and Floor/Wall Transitions**

Fill all substrate coves and floor/wall transitions to a smooth finish and changes in plane using a latex fortified thin-set mortar. Alternatively, a liberal coat<sup>^^</sup> of HYDRO BAN applied with a paint brush or trowel may be used to fill in cove joints and floor/wall transitions <1/8" (3 mm). Apply a liberal coat<sup>^^</sup> of HYDRO BAN approximately 8" (200 mm) wide over substrate coves and floor/wall transitions using a paint brush or roller (heavy napped roller cover).

### **Pre-Treat Drains**

Drains must be of the bonding flange or clamping ring type, with weepers and as per ASME A112.6.3. Apply a liberal coat<sup>^^</sup> of HYDRO BAN Waterproofing Membrane liquid around and over the bonding flange or the bottom half of drain clamping ring. Cover with a second coat<sup>^^</sup> of HYDRO BAN. When dry, apply a LATASIL™ bead where the HYDRO BAN meets the drain throat. Install top half of drain clamping ring.

### **Pre-Treat Penetrations**

Allow for a minimum 1/8" (3 mm) space between drains, pipes, lights or other penetrations and surrounding ceramic tile, stone or brick. Pack any gaps around pipes, lights or other penetrations with a Latex fortified thin-set mortar. Apply a liberal coat<sup>^^</sup> of HYDRO BAN liquid around penetration opening. Cover with a second coat<sup>^^</sup> of HYDRO BAN. Bring HYDRO BAN up to level of tile or stone. When dry, seal flashing with LATASIL.

Crack Isolation (Partial Coverage) Crack suppression must be applied a minimum of 3 times the width of the tile or stone being installed. The tile installed over the crack cannot be in contact with the concrete.

Follow TCNA Method F125 for the treatment of hairline cracks, shrinkage cracks, and saw cut or control joints: Apply a liberal coat<sup>^^</sup> of HYDRO BAN to a minimum of three (3) times the width of the tile using a paint roller or paint brush and allow to dry. After the first coat has dried to the touch, install a second liberal coat<sup>^^</sup> of HYDRO BAN over the first coat.

As an alternative; Apply a liberal coat<sup>^^</sup> of HYDRO BAN liquid, 3 times the width of the tile over the crack using a paint roller or paint brush and immediately apply the 6" (150mm) wide Waterproofing/Anti-Fracture Fabric into the wet liquid over the crack. Press firmly with brush or roller to allow complete "bleed through" of liquid. Immediately apply another liberal coat<sup>^^</sup> of HYDRO BAN liquid over the fabric and allow to dry. When the first treatment has dried, apply a liberal coat<sup>^^</sup> of HYDRO BAN to over the first wide coat, using a paint roller or paint brush, and allow to dry. Treat closest joint to the crack, saw cut, or cold joint in the tile or stone installation with LATASIL.

<sup>^^</sup> Wet coat thickness is 15 – 22 mils (0.4 – 0.6 mm) consumption per coat is -0.01/gal/ft<sup>2</sup> (-0.4 ℓ/m<sup>2</sup>); coverage per coat is – 100 ft<sup>2</sup>/gal (-2.5m<sup>2</sup>/ℓ). Use wet film gauge to check thickness.

### **Main Application**

Allow any pre-treated areas to dry to the touch. Apply a liberal coat<sup>^^</sup> of HYDRO BAN with brush or roller over substrate including pre-treated areas. Apply another liberal coat<sup>^^</sup> of HYDRO BAN over the first coat of HYDRO BAN. Let topcoat dry to the touch, approximately 1–2 hours at 70°F (21°C) and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. HYDRO BAN will dry to an olive green color when it's dry to touch. Use additional HYDRO BAN to seal defects.

### **Movement Joints**

See HYDRO BAN Installation Instructions DS 663.5.

*Note: Apply a liberal coat<sup>^^</sup> of HYDRO BAN, approximately 8" (200 mm) wide over the areas. Then embed and loop the 6" (150 mm) wide Waterproofing/Anti-Fracture Fabric and allow to bleed through. Then top coat with a second coat<sup>^^</sup> of HYDRO BAN.*

### **Protection**

Provide protection for newly installed membrane, even if covered with a thin bed ceramic tile, stone or brick installation, against exposure to rain or other water for a minimum of 2 hours at 70°F (21°C) and 50% RH.

### **Flood Testing**

Allow membrane to cure fully before flood testing, typically 2 hours after final cure at 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time. For temperatures 50 – 69°F (10 – 21°C) allow 24 hours after final cure prior to flood testing.

### **Installing Finishes**

Once HYDRO BAN has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a Latex Thin-Set Mortar. Allow HYDRO BAN to cure 2 hours at 70°F (21°C) and 50% RH before covering with, thick bed mortar, epoxy adhesives, terrazzo or moisture sensitive resilient or wood flooring. Do not use solvent-based adhesives directly on HYDRO BAN.

### **Drains & Penetrations**

Use LATASIL and foam backer rod to seal space between drain or penetration and finish. Do not use a grout or joint filler mortar.

### **Control Joints**

Ceramic tile, stone and brick installations must include sealant- filled joints over any control joints in the substrate. However, the sealant-filled joints can be offset horizontally by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

### **Movement Joints**

Ceramic tile, stone and thin brick installations must include expansion at coves, corners, other changes in substrate plane and over any expansion joints in the substrate. Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in the Tile Council of North America, Inc. (TCNA) Handbook Installation Method EJ171. Use LATASIL and backer rod.

### **Spray Application of HYDRO BAN®**

Follow all installation and surface preparation requirements outlined in this document and DS 663.5 and TDS 410.

The sprayer being used for the application of HYDRO BAN® should be capable of producing a maximum of 3300 psi (22.8 MPa) with a flow rate of 0.95 to 1.6 GPM (3.6 to 6.0 LPM) using a 0.521 or a 0.631 reversible tip. Keep the unit filled with HYDRO BAN to ensure continuous application of liquid. The hose length should not exceed 100' (30 m) in length and 3/8" (9 mm) in diameter.

Apply a continuous HYDRO BAN film with an overlapping spray<sup>^^</sup>. The wet film has a sage green appearance and dries to a darker olive green color. When the first coat has dried to a uniform olive green color, approximately 45 to 90 minutes at 70°F (21°C), visually inspect the coating for any voids or pinholes. Fill any defects with additional material and apply the second coat<sup>^^</sup> at right angles to the first. The wet film thickness should be checked periodically using a wet film gauge. Each wet coat should be 0.015 – 0.022 inches (0.4 – 0.6 mm) thick. The combined dried coating should be 0.020 – 0.030 inches (0.5 – 0.8 mm) thick.

Check application thickness with a wet film gauge periodically as the HYDRO BAN is being dispensed to ensure that the appropriate thickness and coverage is achieved. Bounce back and overspray will consume more product. To achieve the required film thickness, the coating must be free from pinholes and air bubbles. Do not back roll the spray applied coating. Allow the HYDRO BAN to cure in accord with the instructions in this document, DS 663.5 and TDS 410 prior to the installation of the tile or stone finish.

It is important to note that areas not scheduled to receive the HYDRO BAN should be taped off and protected from any potential overspray. Expansion and movement joints should be honored and treated as outlined in this document, DS 663.5 and TDS 410.

<sup>^^</sup> Wet coat thickness is 15 – 22 mils (0.4 – 0.6 mm) consumption per coat is -0.01/gal/ft<sup>2</sup> (-0.4 l/m<sup>2</sup>); coverage per coat is - 100 ft<sup>2</sup>/gal (-2.5m<sup>2</sup>/l). Use wet film gauge to check thickness.

### **Cleaning**

While wet, HYDRO BAN can be washed from tools with water.

## **6. AVAILABILITY AND COST**

### **Availability**

LATICRETE® and LATAPOXY® materials are available worldwide.

### **For Distributor Information, Call:**

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010

For on-line Distributor Information, visit LATICRETE at [www.laticrete.com](http://www.laticrete.com).

### **Cost**

Contact a LATICRETE Distributor in your area.

## **7. WARRANTY**

See 10. FILING SYSTEM.

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year System  
Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System  
Warranty for Steel or Wood Framed Exterior  
Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System  
Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime System  
Warranty (United States and Canada)

## **8. MAINTENANCE**

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## **9. TECHNICAL SERVICES**

### **Technical Assistance**

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

### **Technical and Safety Literature**

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## **10. FILING SYSTEM**

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty

DS 230.05: LATICRETE 5 Year System  
Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System  
Warranty for Steel or Wood Framed Exterior  
Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System  
Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime System  
Warranty (United States and Canada)

DS 633.0: LATAPOXY 300 Adhesive

DS 663.5: HYDRO BAN Installation Instructions

DS 6200.1: LATASIL™

TDS 152: "Bonding Ceramic Tile, Stone or Brick Over  
Wood Floors"

TDS 410: Spraying HYDRO BAN

TDS 157: "Exterior Installation of Tile and Stone Over  
Occupied Space."



# 254 Platinum

DS-677.0-0515

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

254 Platinum

## 2. MANUFACTURER

LATICRETE International, Inc.  
1 LATICRETE Park North  
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235  
Toll Free: 1.800.243.4788, ext. 235  
Fax: +1.203.393.1684  
Internet: [www.laticrete.com](http://www.laticrete.com)

## 3. PRODUCT DESCRIPTION

The ultimate one-step, polymer fortified, thin-set mortar for interior and exterior installation of ceramic tile, porcelain tile, thin porcelain tile, stone, quarry tile, pavers and brick. 254 Platinum, designed to just mix with water, has a long open time with unsurpassed adhesion and workability. 254 Platinum is a LATICRETE approved substitute for 211 Powder mixed with 4237 Latex Additive.

### Uses

Excellent for exterior and underwater applications as well as providing superior bond to exterior glue plywood (interior only) and concrete. The ultimate thin-set for porcelain, thin porcelain, and glass tiles.

### Advantages

- Ideal for thin porcelain tile and thin porcelain tile panels
- Equipped with anti-microbial technology.
- Exceeds ANSI A118.4, A118.11 and ANSI A118.15.
- Conforms to ISO 13007 with a classification of C2TES1P1.
- Ultimate adhesion for porcelain and glass tiles.
- Incredible bond to exterior glue plywood and concrete\*.
- Superior for exterior and submerged applications.
- High shear bond strength.
- Smooth creamy formula.
- 25 Year System Warranty\*\*.

\* See limitations.

\*\* When used as part of the LATICRETE 25 Year System Warranty DS 025.0.

### Suitable Substrates

- Exterior Glue Plywood<sup>^</sup>
- Properly Prepared Vinyl Tile<sup>^</sup>
- Concrete/Masonry
- Concrete Block
- Cement Mortar Beds
- Non-Water Soluble Cut-Back Adhesive<sup>^^</sup>
- Cement Terrazzo
- Cement Backer Boards<sup>^^</sup>
- Gypsum Wallboard<sup>^</sup>
- Gypsum Plaster<sup>^</sup>
- Plastic Laminate<sup>^</sup>
- Existing Ceramic Tile And Stone

<sup>^</sup> Interior use only.

<sup>^^</sup>Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

### Packaging

50 lb bag (22.7 kg); 56 bags per pallet

**Color:** Grey and White

### Approximate Coverage

80–95 ft <sup>2</sup> / 50 lb bag (7.4–8.8 m <sup>2</sup> /22.7 kg bag) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.
50–60 ft <sup>2</sup> / 50 lb bag (4.6–5.6 m <sup>2</sup> /22.7 kg bag) with 1/4" x 3/8" (6 mm x 9 mm) notched trowel.
40–45 ft <sup>2</sup> / 50 lb bag (3.7–4.2 m <sup>2</sup> /22.7 kg bag) with 1/2" x 1/2" (12 mm x 12 mm) notched trowel.

Coverage will vary depending on trowel notch size, type and size of tile and substrate.

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year\*\*\* if stored off the ground in a dry area.

\*\*\*High humidity will reduce the shelf life of bagged product.

### Limitations

- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- Not for use directly over particle board, luan, Masonite<sup>®</sup> or hardwood floors.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE<sup>®</sup> Waterproofing Membrane (see Section 10 FILING SYSTEMS).

*Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length (except where local building codes specify more stringent deflection requirements)*

## Cautions

Consult SDS for more safety information.

- Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors.
- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Wait 14 days after the final grouting period before filing water features with water at 70°F (21°C).
- DO NOT take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- For white and light-colored marbles use 254 Platinum WHITE. For green marble, resin backed tile and stone and other moisture sensitive marbles and agglomerates, use LATAPOXY® 300 Adhesive (refer to Data Sheet 633.0).
- Keep out of reach of children.

## 4. TECHNICAL DATA

### VOC/LEED Product Information



This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

Total VOC Content pounds/gallon (grams/liter) of product in unused form is 0.00 lb/gal (0.00 g/l).

### Applicable Standard

ANSI A118.4, ANSI 118.11, ANSI 118.15, EN 12004, ISO 13007

### Physical Properties

Test	Test Method	Results	Specification
28 day Cure Porcelain Tile Shear Strength	ANSI A118.15 7.2.5	475-520 psi (3.2-3.6 MPa)	>400 psi (2.76 MPa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.15 7.2.4	275-300 psi (2.0-3.6 MPa)	>200 psi (1.38 MPa)
28 day Heat Aging Tile Shear Strength	ANSI A118.15 7.2.7	650-800 psi (4.5-5.5 MPa)	>400 psi (2.76 MPa)
28 day Cure Quarry Tile to Plywood Shear Bond	ANSI A118.11 4.1.2	250-300 psi (1.7-2.1 MPa)	>150 psi (1.0 MPa)

Test	Test Method	ISO 13007-1 C2 Specification	Results
28 Day Cure Tensile Adhesive Strength	ISO 13007-2 4.4.2	1 MPa (145 psi)	1.8 - 2.6 MPa (261-377 psi)
7 Day Cure 21 Day Water Immersion Tensile Adhesive Strength	ISO 13007-2 4.4.3	1 MPa (145 psi)	1.3-1.5 MPa (174-221 psi)
14 Day Cure 14 Day Heat Age Tensile Adhesive Strength	ISO 13007-2 4.4.4	1 MPa (145 psi)	2.4-3.0 MPa (345-438 psi)
7 Day Cure 21 Day Water	ISO 13007-2	1 MPa	2-1.7 MPa

Immersion 25 Freeze/Thaw Cycle Tensile Adhesive Strength	4.4.5	145 psi)	(171-247 psi)
Open Time After 30 Minutes	ISO 13007-2 4.1	0.5 MPa (73 psi)	1.3-1.9 MPa (190-283 psi)
Slip	ISO 13007-2 4.2	Less than or equal to 0.5 mm (0.02 inches)	0.5 mm (0.02 inches)
Transverse Deformation	ISO 13007-2 4.5	Greater than or equal to 2.5 mm (0.1 in.) and less than 5 mm (0.2 in.)	3.2-3.6 mm (0.13-0.14 in.)

254 Platinum is ISO 13007-1 C2TES1P1

### Working Properties

Open Time	40 minutes
Pot Life	2 hours
Time to Heavy Traffic	24 hours
Wet Density	103 lbs/ft³ (1653 kg/m³)

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

## 5. INSTALLATION

### Surface Preparation

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with Latex Portland Cement Underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. Concrete slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m).

*Note: 254 Platinum does not require a minimum cure time for concrete slabs. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.*

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.
2. Minimum construction for interior plywood floors.
 

**SUBFLOOR:** 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

**UNDERLAYMENT:** 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm)

to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 Bonding Ceramic Tile, Stone or Brick over Wood Floors for complete details.

### Mixing

Place clean, potable water into a clean pail. Use approximately 5.5 qts (5.2 L) of water for 50 lbs (22.7 kg) of powder. Add 254 Platinum. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5–10 minutes. Remix with out adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water.

*Note: For use as a slurry bond coat; mix 7 quarts (6.6 L) water to a 50 lb (22.7 kg) bag of 254 Platinum. Refer to Technical Data Sheet 143 for more information.*

### Application

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side.

*Note: Use proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes. Back butter large tiles >8" x 8" (>200 mm x 200 mm) to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.*

### Grouting

Grout installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with SPECTRALOCK®† PRO Premium Grout†, SPECTRALOCK PRO Grout† or PERMACOLOR® Grout†<sup>AAA</sup>

### Cleaning

Clean tools and tile work with water while mortar is fresh.

## 6. AVAILABILITY AND COST

### Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

### For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line Distribution information, visit LATICRETE at [www.laticrete.com](http://www.laticrete.com)

### Cost

Contact a LATICRETE/LATAPOXY Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)

DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime System Warranty

## 8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

### Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at

**www.laticrete.com**. The following is a list of related documents:

- DS 230.13: LATICRETE® Product Warranty
- DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)
- DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)
- DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada)
- DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
- DS 230.99: LATICRETE Lifetime System Warranty
- DS 230.1: 4237 Latex Additive
- DS 236.0: 9235 Waterproofing Membrane
- DS 239.0: 211 Powder
- DS 250.0: PERMACOLOR® Grout<sup>^^^</sup>
- DS 633.0: LATAPOXY® 300 Adhesive
- DS 663.0: HYDRO BAN®
- DS 681.0: SPECTRALOCK® PRO Premium Grout†
- DS 685.0: SPECTRALOCK PRO Grout†
- TDS 143: Slurry Bond Coats – When and What to Use
- TDS 152: Bonding Ceramic Tile, Stone or Brick over Wood Floors

<sup>^^^</sup>United States Invention Patent No.: 6,784,229 (and other Patents)

† United States Invention Patent No.: 6,881,768 (and other Patents).



# PERMACOLOR® Grout<sup>^</sup>

DS-250.0-0115

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

PERMACOLOR® Grout<sup>^</sup>

## 2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235

Toll Free: 1.800.243.4788, ext. 235

Fax: +1.203.393.1684

Internet: [www.laticrete.com](http://www.laticrete.com)

## 3. PRODUCT DESCRIPTION

PERMACOLOR Grout is a high performance, fast setting grout that provides a grout joint that is dense and hard. PERMACOLOR Grout is color consistent. Mix only with water.

### Advantages

- Consistent color
- Fast setting
- Mixes with water only
- Ideal for floors and walls (joint widths of 1/16–1/2" [1.5 to 12 mm])
- Equipped with anti-microbial technology.
- Component of LATICRETE® 25 Year System Warranty (United States and Canada) (DS 025.0) and LATICRETE Lifetime Warranty (United States and Canada) (DS 230.99)
- Improved stain resistance for a cement based grout
- Interior and exterior applications
- Residential and commercial
- Conforms to ISO 13007 and EN 13888 (CG2WA)
- Meets ANSI A118.7 requirements

### Packaging

25 lb (11.3 kg) bags

8 lb (3.6 kg) cartons

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for the time period listed below if stored off the ground in a dry area.

- 25 lb (11.3 kg) bags – one (1) year
- 8 lb (3.6 kg) cartons – two (2) years

### Limitations

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEM).
- Use SPECTRALOCK® 2000 IG when chemical resistance is required.
- DO NOT use acid to clean colored grout joints.
- Job site conditions will affect the final color of colored grouts. Try a small test area to determine your results before grouting the entire installation.
- Certain types of tile are more absorbent than others and will trap color pigment during grouting. Prior to grouting, test for absorption of color pigment. Porous tiles will need to be sealed prior to grouting.
- Selecting other grouting materials: LATICRETE has grouting materials designed for every use. For installations that require high strength and chemical resistance choose SPECTRALOCK 2000 IG. This product is ideal for installations where a stain resistant colorfast grout is desired.

*Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.*

### Cautions

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Grout may scratch soft glazed or polished surfaces. Conduct a test area to verify results.

- In submerged applications or steam rooms allow PERMACOLOR® Grout<sup>^</sup> to cure for 14 days at 70°F (21°C) prior to filling with water or exposing to steam. See TDS 192 and TDS 172 for more information on these applications.
- Keep out of reach of children.

#### 4. TECHNICAL DATA

##### VOC/LEED Product Information



This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

##### Applicable Standards

(ANSI A118.6, A118.7, EN 13888 & ISO 13007)

##### Physical Properties

Tensile Strength (28 Days)	510 psi (3.5 MPa)
Compressive Strength (28 Days)	4500 psi (31.0 MPa)
Flexural Strength (28 Days)	1250 psi (8.62 MPa)
Linear Shrinkage (7 Days)	0.0450 %
Water Absorption (28 Days)	4.25%

Test	Test Method	ISO 13007-3 CG2WA Specification	Results
28 Day Cure Abrasion Resistance	ISO 13007-4 4.4	Less than or equal to 1000 mm <sup>3</sup> (0.061 in <sup>3</sup> )	121–132 mm <sup>3</sup> (0.0074–0.0081 in <sup>3</sup> )
28 Day Cure Flexural Strength	ISO 13007-4 4.1.3	Greater than 2.5 MPa (362 psi)	8.5–9.2 MPa (1226–1340 psi)
6 Day 21 Day Water Soak 25 Freeze/Thaw Cycle Flexural Strength	ISO 13007-4 4.1.3	Greater than 2.5 MPa (362 psi)	3.31–3.79 MPa (480–550 psi)
28 Day Cure Compressive Strength	ISO 13007-4 4.1.4	Greater than 15 MPa (2175 psi)	35.7–36.8 MPa (5176–5339 psi)
6 Day 21 Day Water Soak 25 Freeze/Thaw Cycle Compressive Strength	ISO 13007-4 4.1.4	Greater than 15 MPa (2175 psi)	30.4–31.2 MPa (4408–4518 psi)
28 Day Cure Shrinkage	ISO 13007-4 4.3	Less than 3 mm/m (0.12 in./3.28 ft)	0.51–0.62 mm/m (0.02–0.024 in/3.28 ft)
28 Day Water Absorption Soaked 30 Minutes	ISO 13007-4 4.2	Less than 2 g (0.0044 lb)	0.09–0.14 g (0.0002–0.0003 lb)
28 Day Water Absorption Soaked 240 Minutes	ISO 13007-4 4.2	Less than 5 g (0.011 lb)	0.54–0.7 g (0.0012–0.0015 lb)

##### Working Properties

Pot Life	45–60 min at 70°F (21°C)
Final Set	3 – 4 hrs
Heavy Foot Traffic	6 hrs

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

#### 5. INSTALLATION

##### Surface Preparation

Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Note: when grouting in hot weather refer to TDS 176 Hot Weather Tiling and Grouting. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary. Refer to TDS 400 Grout Guide for more information on grouting.

##### Mixing

Use approximately 2 – 2 1/4 quarts (1.9 L – 2.15 L) of clean potable water for 25 lbs (11.3 kg) of PERMACOLOR Grout. Do not use with 1776 Grout Enhancer or any other latex additive. Place water in a clean mixing container and add grout powder. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute.

##### Application

Clean tile surface with a damp sponge. Spread with a sharp, firm rubber grout float or wall float for narrow wall joints. To remove excess grout hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints to avoid pulling out the material.

*Note: If the grout begins to stiffen during installation, remix with drill mixer for 10–15 seconds. DO NOT ADD MORE WATER.*

##### Cleaning

For first cleaning wait approximately 35 – 40 minutes at 70°F (21°C). Wider joints or cooler temperatures may extend wait time. Begin initial cleaning by lightly wiping down entire area to be cleaned with a damp sponge. Wash with a damp sponge (not wet). Work diagonally to the joints. Allow to dry 3 hours at 70°F (21°C). For second cleaning use a damp sponge or dry cloth to remove remaining grout haze.

*Note: Use caution when polishing soft glazed tile or polished stone. If grout is to be sealed, LATICRETE generally recommends waiting a minimum of a 48 hours at 70°F (21°C) prior to sealing PERMACOLOR Grout<sup>^</sup>, or any other cement-based grout; however, we suggest deferring to the written recommendations of the sealer manufacturer to make the final determination, as certain sealers may require the cement grout to cure for an extended period of time.*

#### 6. AVAILABILITY AND COST

##### Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

For Distributor information:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at

[www.laticrete.com](http://www.laticrete.com).

##### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE® Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year System  
Warranty (United States and Canada)

DS 230.10: LATICRETE 10 Year System  
Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System  
Warranty for Steel or Wood Framed Exterior  
Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty (United  
States and Canada)

DS 230.99: LATICRETE Lifetime System Warranty

## 8. MAINTENANCE

LATICRETE and LATAPOXY® grouts require routine cleaning with a neutral pH soap and water. Contact the cleaner manufacturer if another cleaner type will be used to ensure compatibility with the grout. Installation performance and durability may depend on properly maintaining products supplied by other manufacturers. Routine maintenance can be done with detergents and a sponge or mop. For tough or difficult to remove soil, a bleaching cleaner (e.g. Soft Scrub, Comet, Ajax, etc. or electric dish washing detergent) on a nylon scrubbing pad or a long handled stiff bristle brush can be used. Please note: Prior to using any cleaning material on a tile, etc. installation, test a discrete area or scrap piece of tile to ensure desired results. For additional information, please refer to the Grout Guide, TDS 400.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

### Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty

DS 230.05: LATICRETE 5 Year System  
Warranty (United States and Canada)

DS 230.10: LATICRETE 10 Year System  
Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System  
Warranty for Steel or Wood Framed Exterior  
Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty (United  
States and Canada)

DS 230.99: LATICRETE Lifetime System Warranty

DS 030.0: SPECTRALOCK® 2000 IG

DS 236.0: 9235 Waterproofing Membrane

DS 663.0: HYDRO BAN®

TDS 192: Installation of Ceramic Tile in Swimming Pools

TDS 176: Hot Weather Tiling and Grouting

<sup>1</sup> United States Invention Patent No.: 6784229 (and other Patents)



# PERMACOLOR® Select<sup>^</sup>

DS-281.0-0315

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

PERMACOLOR® Select <sup>^</sup>

## 2. MANUFACTURER

LATICRETE International, Inc.  
1 LATICRETE Park North  
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235  
Toll Free: 1.800.243.4788, ext. 235  
Fax: +1.203.393.1684  
Internet: [www.laticrete.com](http://www.laticrete.com)

## 3. PRODUCT DESCRIPTION

PERMACOLOR Select is an advanced high performance cement grout that offers the industry's first dispensable dry pigment solution. PERMACOLOR Select is designed for virtually all types of residential and commercial installations and offers optimum performance on the most demanding exterior or interior applications. Easy to mix, grout and clean, PERMACOLOR Select is fast setting and is suitable for joints 1/16" to 1/2" (1.5mm – 12mm) wide on floors or walls.

### Advantages

- Exceeds ANSI A118.7
- Never needs sealing – Equipped with STONETECH® Sealer Technology
- Vibrant consistent color – minimizes efflorescence
- Reinforced with Kevlar® – crack & shrink resistant
- Fast setting – ready for foot traffic in as little as 3 hours
- GREENGUARD® certified – low VOC
- Equipped with Anti-Microbial protection
- LATICRETE® Lifetime Warranty available
- PERMACOLOR Color Kit – Available in all 40 colors (10 x carton) plus top competitor colors!

### Packaging

Base - 25 lbs (11.3 kg) bag  
Base - 12.5 lbs (5.6 kg) bag  
Color Packs - 10 x .5 lbs (2x100 g) cartons

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for the time period listed below if stored off the ground in a dry area.

- 25 lbs (11.3 kg) & 12.5 lbs (5.6 kg) bags – one (1) year
- 0.5 lbs (220 g) color kit – two (2) years

### Limitations

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEM).
- Use SPECTRALOCK® 2000 IG when chemical resistance is required.
- DO NOT use acid to clean colored grout joints.
- Job site conditions will affect the final color of colored grouts. Try a small test area to determine your results before grouting the entire installation.
- Certain types of tile are more absorbent than others and will trap color pigment during grouting. Prior to grouting, test for absorption of color pigment. Porous tiles will need to be sealed prior to grouting.
- Selecting other grouting materials: LATICRETE has grouting materials designed for every use. For installations that require high strength and chemical resistance choose SPECTRALOCK 2000 IG. This product is ideal for installations where a stain resistant colorfast grout is desired.

*Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.*

### Cautions

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.

- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Grout may scratch soft glazed or polished surfaces. Conduct a test area to verify results.
- In submerged applications or steam rooms allow PERMACOLOR® Select<sup>^</sup> to cure for 14 days at 70°F (21°C) prior to filling with water or exposing to steam. See TDS 192 and TDS 172 for more information on these applications.
- Keep out of reach of children.

#### 4. TECHNICAL DATA

##### VOC/LEED Product Information



This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

##### Applicable Standards (ANSI A118.6, A118.7)

##### Physical Properties

Tensile Strength (28 Days)	510 psi (3.5 MPa)
Compressive Strength (28 Days)	3500 psi (24.1 MPa)
Flexural Strength (28 Days)	1250 psi (8.62 MPa)
Linear Shrinkage (7 Days)	0.1 %
Water Absorption (28 Days)	2.8%

##### Working Properties

Pot Life	45–60 min at 70°F (21°C)
Final Set	3 – 4 hrs
Heavy Foot Traffic	6 hrs

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

#### 5. INSTALLATION

##### Surface Preparation

Before starting to grout, remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Note: when grouting in hot weather refer to TDS 176 Hot Weather Tiling and Grouting. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary. Refer to TDS 400 Grout Guide for more information on grouting.

##### Mixing

Use approximately 2 – 2.25 quarts (1.9 L – 2.1 L) of clean potable water for 2 PERMACOLOR Select Color Packs and 25 lbs (11.3 kg) of PERMACOLOR Select Grout Base. Do not use with 1776 Grout Enhancer or any other latex additive. Place water in a clean mixing container. Remove Color Packs from the cardboard container as well as the protective plastic sleeve. The internal bag is a water-dispersible pack – when using the 25 lbs. (11.3 kg) bag of PERMACOLOR Select, drop both color packs directly to water in

clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible pack is no longer visible. Add PERMACOLOR Select Base. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute. If using the 12.5 lbs bag, drop only one color pack into 1 – 1.1 quarts (.8L – 1.0 L) of clean water.

##### Application

Clean tile surface with a damp sponge. Spread with a sharp, firm rubber grout float or wall float for narrow wall joints. To remove excess grout hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints to avoid pulling out the material.

*Note: If the grout begins to stiffen during installation, remix with drill mixer for 10–15 seconds. DO NOT ADD MORE WATER.*

##### Cleaning

For first cleaning wait approximately 35 – 40 minutes at 70°F (21°C). Wider joints or cooler temperatures may extend wait time. Begin initial cleaning by lightly wiping down entire area to be cleaned with a damp sponge. Wash with a damp sponge (not wet). Work diagonally to the joints. Allow to dry 3 hours at 70°F (21°C). For second cleaning use a damp sponge or dry cloth to remove remaining grout haze.

*Note: Use caution when polishing soft glazed tile or polished stone. If grout is to be sealed, LATICRETE generally recommends waiting a minimum of a 72 hours at 70°F (21°C) prior to sealing PERMACOLOR Select, with a STONETECH® sealer.*

#### 6. AVAILABILITY AND COST

##### Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

For Distributor information:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at [www.laticrete.com](http://www.laticrete.com).

##### Cost

Contact a LATICRETE Distributor in your area.

#### 7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE® Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)

DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime System Warranty

## 8. MAINTENANCE

LATICRETE® and LATAPOXY® grouts require routine cleaning with a neutral pH cleaner (e.g. STONETECH® Stone & Tile Cleaner) and water. Contact the cleaner manufacturer if another cleaner type will be used to ensure compatibility with the grout. Installation performance and durability may depend on properly maintaining products supplied by other manufacturers. Routine maintenance can be done with detergents and a sponge or mop. For tough or difficult to remove soil, use STONETECH KLENZALL™ Cleaner (or a bleaching cleaner) on a nylon scrubbing pad or a long handled stiff bristle brush can be used. Please note: Prior to using any cleaning material on a tile, stone, etc. installation, test a discrete area or scrap piece of tile to ensure desired results. For additional information, please refer to the Grout Guide, TDS 400 and to TDS 113- Cement Grout Care & Maintenance for more information.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235  
Telephone: +1.203.393.0010, ext. 235  
Fax: +1.203.393.1948

### Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty (United States and Canada)  
DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)  
DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)  
DS 230.15: LATICRETE 15 Year System Warranty - for Steel or Wood Framed Exterior Facades (United States and Canada)  
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)  
DS 230.99: LATICRETE Lifetime System Warranty  
DS 030.0: SPECTRALOCK® 2000 IG  
DS 236.0: 9235 Waterproofing Membrane  
DS 663.0: HYDRO BAN®  
K20511: STONETECH Stone & Tile Cleaner  
K 20514: STONETECH KLENZALL Cleaner  
TDS 192: Installation of Ceramic Tile in Swimming Pools  
TDS 176: Hot Weather Tiling and Grouting  
TDS 400: Grout Guide  
TDS 172: Installation of Tile or Stone in Steam Rooms Over Backer Board  
TDS 113: Cement Grout Care and Maintenance for More Information

<sup>^</sup> United States Invention Patent No.: 6,784,229 (and other Patents)

LATICRETE International, Inc.  
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • [www.laticrete.com](http://www.laticrete.com)

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## Features

- Projects an even glow into the surround
- Modern design to complement today's architecture
- Durable powder-coated and plated finishes provide resistance to the elements
- Available in an assortment of enclosures and diffusers to complement the theme
- Several lamp choices for design flexibility
- Cool operation for extended lamp and component life

## Enclosure

The enclosure is made of high grade aluminum. The design is precisely cut and the material is formed to the body of the sconce. Decorative, 1/2" wide, 316L stainless steel strips, are polished to accent the luminous area, enhancing the overall aesthetics. Alpine is available in 3 sizes, depending on the lamp configuration.

## Diffuser

The diffuser is made of 1/8" thick, UV-stabilized, fire rated, opal-white acrylic, secured inside the enclosure. When the sconce is turned "on", the lamp and diffuser project a soft, even glow forward, without any direct glare from the lamps.

## Lamp

It is designed to operate with compact fluorescent (2x 54W max. T5 HO) and LED (46W max. combination) light sources, for design and application flexibility.

## Lamp Socket

All lamp sockets used are compatible with other components in the supplied system. Overall, production is in compliance with North American and European electrical standards; see Compliances.

## Ballast

Electronic fluorescent ballasts used with the Alpine possess many attributes that contribute to the quality of light, energy savings and safety:

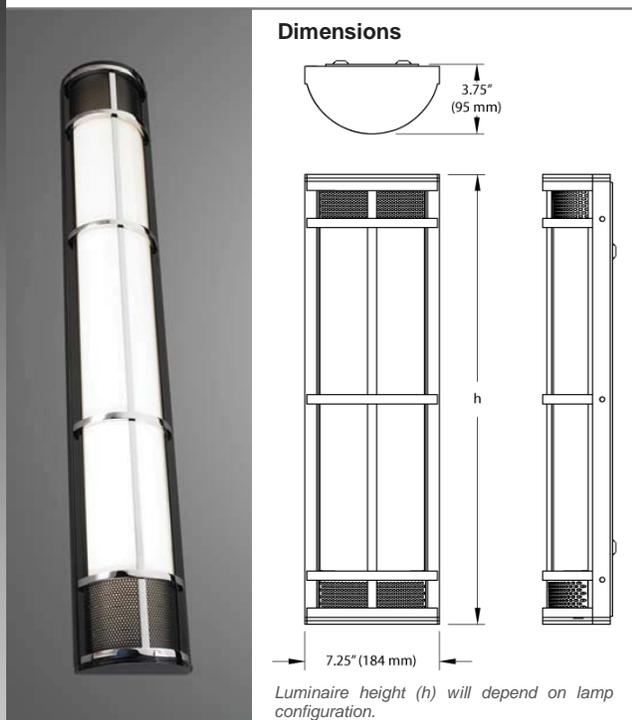
- Virtual flicker-free operation
- High ballast factor of 1.0 for maximum lumen maintenance
- High power factor greater than 90%
- Low THD: CF < 10%
- Sound rated "A" for the most quiet operation
- Equipped with a RFI circuit to eliminate any electromagnetic interference
- EOL protection switches output OFF on lamp burnout
- Environmentally friendly, containing no PCB's
- Color-coded leads for easy installation
- Manufactured to ISO9002 Quality System Standards

Dimming and emergency ballasts are optional.

## LED Driver

The LED sources are controlled by an advanced electronic driver, for cool, flicker-free operation, and energy savings. Built from quality components, the driver delivers consistent power and extends LED lamp life. The integral mount is standard and remote mount is optional.

The Alpine sconce is ideal for illuminating entrances, lobbies, and other indoor and outdoor areas that could benefit from clean light and today's aesthetics.



## LED Dimmer

The optional LED dimmer can be installed into a standard switchbox. Equipped with current sinking technology, it controls the intensity of the light output over the upper 90% of the range (10% min. to 100% max.). Integrated pulse width modulation (PWM) technology ensures a consistent color temperature (CCT) when making adjustments, for no color shifts or blurs. You can adjust the amount of light while maintaining the same quality.

## Mounting

Mount on a wall, directly over a standard 4" electrical junction box. See installation instructions, and adhere to your local hydro code.

## Finishes

The Alpine sconce is available in a durable, TGIC thermo set polyester powder coated finish, plated finishes, and RAL colors to compliment the theme. The accent strips are also customizable with an assortment of finishes to choose from. See the TMS Lighting Color Charts.

## Compliances

The Alpine sconce is UL and USTC listed, complies with the Consultants Europe directives and the requirements of the Americans with Disabilities Act. It is rated IP55 for indoor and outdoor applications.



**Product Key**

AL395	-	-	-	-	-	-
	1	2	3	4	5	

**1. Lamp**

- A 2x 54W T5 HO (48"h x 7.25"w x 3.75"d)
- B 2x 24W T5 HO (27"h x 7.25"w x 3.75"d)
- C 2x 39W T5 HO (36"h x 7.25"w x 3.75"d)
- D 30W LED + 8W LED uplight + 8W LED downlight (27"h x 7.25"w x 3.75"d)

**2. Voltage**

- 1 120V
- 2 277V
- 3 347V (consult factory)
- 4 220V to 230V

**3. Finish**

- SN Satin Nickel
- CH Chrome
- BCH Black Chrome
- AC Antique Copper
- AB Antique Brass
- SB Satin Brass
- PB Polished Brass
- F05 Architectural Bronze
- F31 Silver Metallic
- F## TMS Standard Color
- RL RAL Custom Color (specify)

**4. Accents**

- SN Satin Nickel
- CH Chrome
- BCH Black Chrome
- AC Antique Copper
- AB Antique Brass
- SB Satin Brass
- PB Polished Brass
- F05 Architectural Bronze
- F31 Silver Metallic
- F## TMS Standard Color
- RL RAL Custom Color (specify)

**5. Options**

- OP Opal-white Diffuser (standard)
- SP Faux Perforated Diffuser (indoor only)
- BA Beige Alabaster Diffuser
- WA White Alabaster Diffuser
- FR Frosted Acrylic Diffuser
- PE Pearl Diffuser (acrylic)
- ODC Opal-white Dust Cover (standard)
- CDC Clear Acrylic Dust Cover
- DMD Dimming Ballast (Advance Mark 10)
- DMDL Dimming Ballast (Lutron)
- DML LED Dimmer (0-10V, current sinking control)
- BU Emergency Ballast (remote; consult factory)

LED lamps are supplied, not others.

Ballast / LED driver (non-dimming) is supplied.

Dimming ballasts are for indoor use only.

The Advance dimming ballast is compatible with all fluorescent lamps offered, except the 39W T5HO. Please select the Lutron ballast for dimming this lamp.

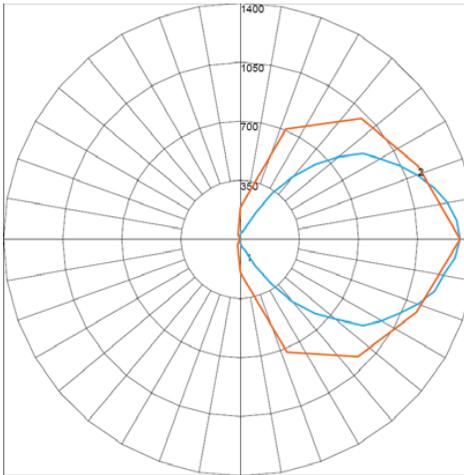
Diffusers are manufactured with acrylic.

Plated finishes are vulnerable to corrosion, and should be used indoors only.

Specifications are subject to change without notice.

**Photometric Data**

Lamps: 2x 54W T5 HO (2x 4,400 lm)  
 Size: 48" h x 7.25" w x 3.75" d  
 CIE Type : General Diffuse



Vertical Plane @ 0°H : —  
 Horizontal Plane @ 90°V : —  
 Angle of Max. Intensity : 0H 90V

**Warranty**

TMS Lighting covers this product by a limited warranty for a period of five (5) years from the date of purchase. This warranty is effective only when the products are used within the parameters of the recommended operating environment. Install in areas where the ambient temperature does not exceed 50°C/122°F.

**Project:** \_\_\_\_\_

**Type:** \_\_\_\_\_

**Quantity:** \_\_\_\_\_

**Notes:** \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**TMS Lighting Inc.**

247A Summerlea Road  
 Brampton, Ontario  
 Canada L6T 4E1

**North America** (905) 793-1174

**Toll-free** (866) 793-1174

**Fax** (905) 793-1175

**UK & Europe** 44-1474-250-654

44-1474-747-957

**Web Site:** [tmslighting.com](http://tmslighting.com)



Torsion Spring metal ceiling system allows both flat and curved ceiling panels to swing down from the ceiling plane.

**KEY FEATURES**

- Two panel size sets
  - 6" to 36" width up to 120" long
  - 48" width up to 48" long
- Swing-down feature allows point-access and 100% access to plenum
- Square-edge design
- Waste reduction with factory fabricated dimensional material
- Downweight: reduce dead load with lightweight aluminum
- Interior and exterior applications
- Compatible with industry standard lighting, HVAC, speaker, fire safety, and security services

**COLORS & FINISHES**

Standard colors Natural and Cotton White shown. Client-specific colors available. Minimum quantities may apply. Colors are for illustrative purposes. See page 178 for all colors and finishes.

Standard colors:



Custom colors:

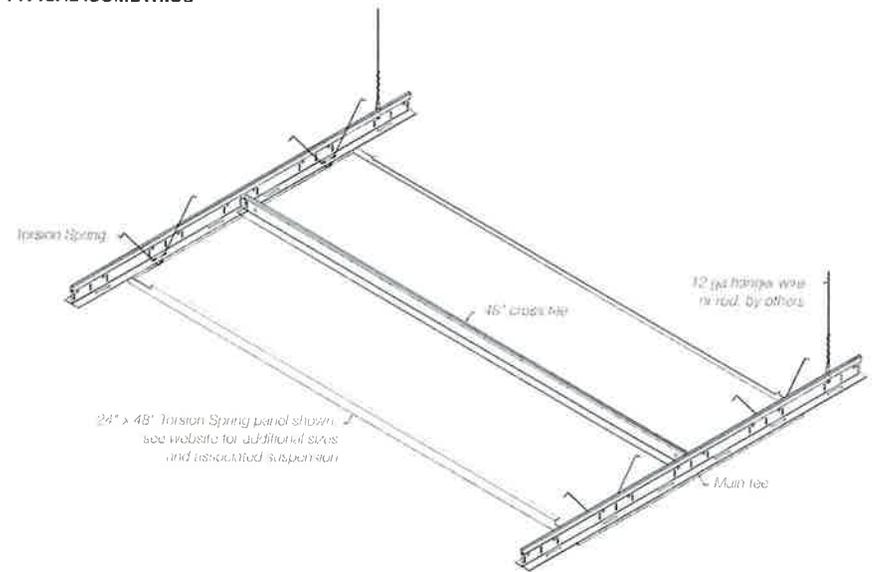


Custom:

Woodright™ finishes include our patented wood-look finish, real wood veneers and laminated wood-look films. See page 180 for all finishes.



**TYPICAL ISOMETRICS**



**PERFORATION PATTERNS**

Standard patterns shown. See page 186 to see all perforation patterns. Scale shown: 1:1, unless otherwise noted.



**PHYSICAL DATA**

- Substrate:** Aluminum
- Warranty:** 1 year
- Seismic rating:** Zones A,B,C,D,E,F
- Fire rating:** Class A Fire Rated per ASTM E84
  - Painted or anodized metal: Flame spread ≤ 25, Smoke ≤ 50
  - Film on metal: Flame spread ≤ 25, Smoke ≤ 10
  - Wood veneer on metal: Flame spread ≤ 25, Smoke ≤ 55 (for interior applications)
- Weight:** Varies 1.0 – 1.5 lbs./sq.ft.
- Wind load:** Per code (for exterior applications)
- Recycled content:** Up to 85%
- Light reflectance (LR) Coefficient per ASTM E1284 & ASTM E1477:**
  - Cotton White: LR = 0.81
- Acoustical ratings – NRC:** See page 190

**BIM**

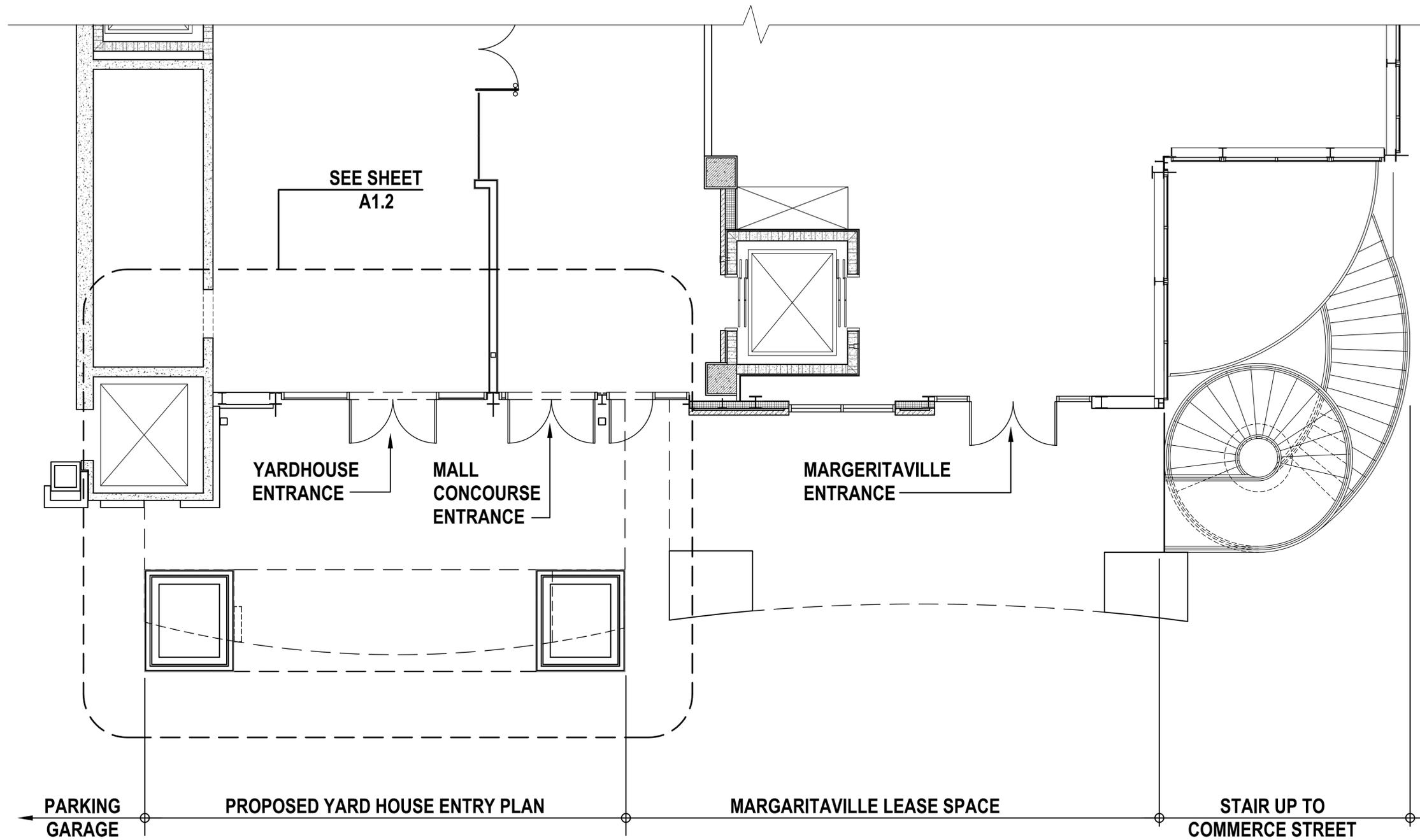
R: V11 files available for BIM contributions. see website for details.

**LEED V4 CREDITS**

- EA:** Optimize Energy Performance
- MR:** Building Product Disclosure
- EQ:** Low-Emitting Materials
- EQ:** Indoor Air Quality Assessment
- EQ:** Daylight
- EQ:** Acoustic Performance

**CERTIFICATIONS**

GR: NGAARD (Gold) Certified HPDs & LPDs – available upon request



**ENTRY PLAN @ COMMERCE STREET**

*The Roberts Group* PSC  
 2380 Southland Drive - Lexington, KY 40503  
 606-276-0007 / 606-276-2801 / Fax: 606-276-0007  
**REGISTRATION # 9338**

PROJECT NUMBER  
**14077**



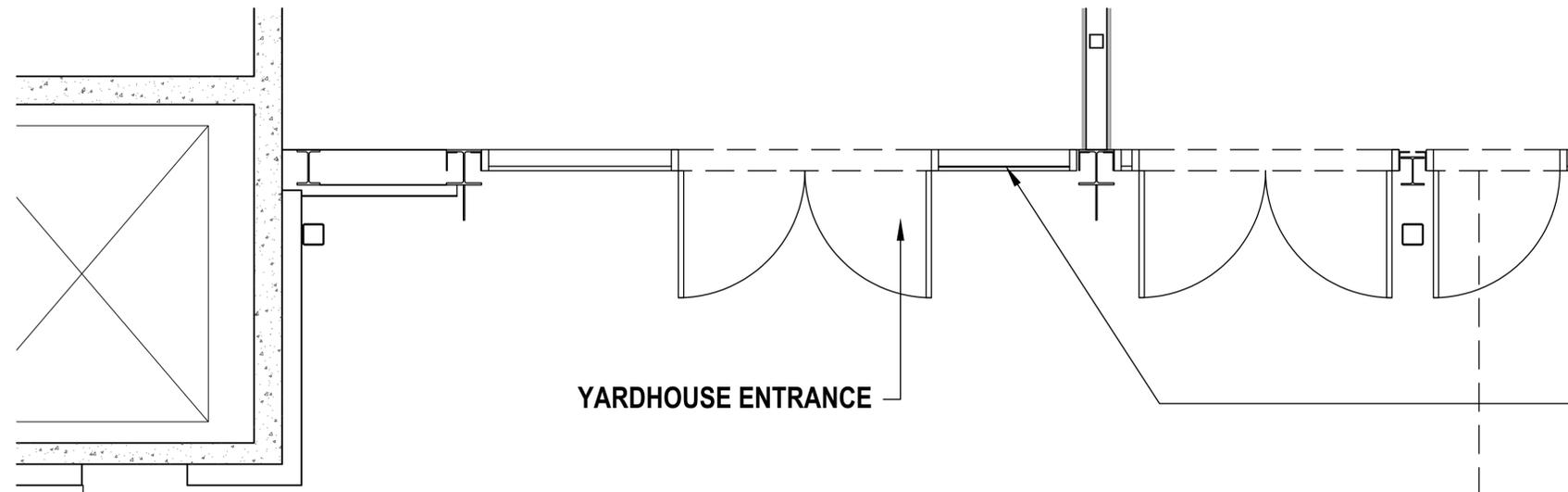
Issue Date: **07/16/15**

Restaurant #: 8362

**YARD HOUSE**  
 RIVERCENTER MALL  
 849 E. COMMERCE ST.  
 SAN ANTONIO, TX

Drawing  
**ENTRY PLAN**

**A1.1**



YARDHOUSE ENTRANCE

RIVERCENTER STOREFRONT (BEYOND) TO REMAIN

PROPOSED YARD HOUSE MENU BOX

EXTERIOR TILE FINISH ALL SIDES OF PIER(S)

LINE OF PREVIOUSLY APPROVED PIER DESIGN

PROPOSED PIER MODIFICATION

LINE OF PREVIOUSLY APPROVED SOFFIT

PROPOSED SOFFIT MODIFICATION

PARKING GARAGE

PROPOSED YARD HOUSE ENTRY PLAN

MARGARITAVILLE LEASE SPACE

The Roberts Group  
PSC  
2850 Southland Drive - Lexington, KY 40503  
852-76-0007 852-76-2801 Faxville  
REGISTRATION # 8338

PROJECT NUMBER  
14077



Issue Date: 07/16/15

Restaurant #: 8362

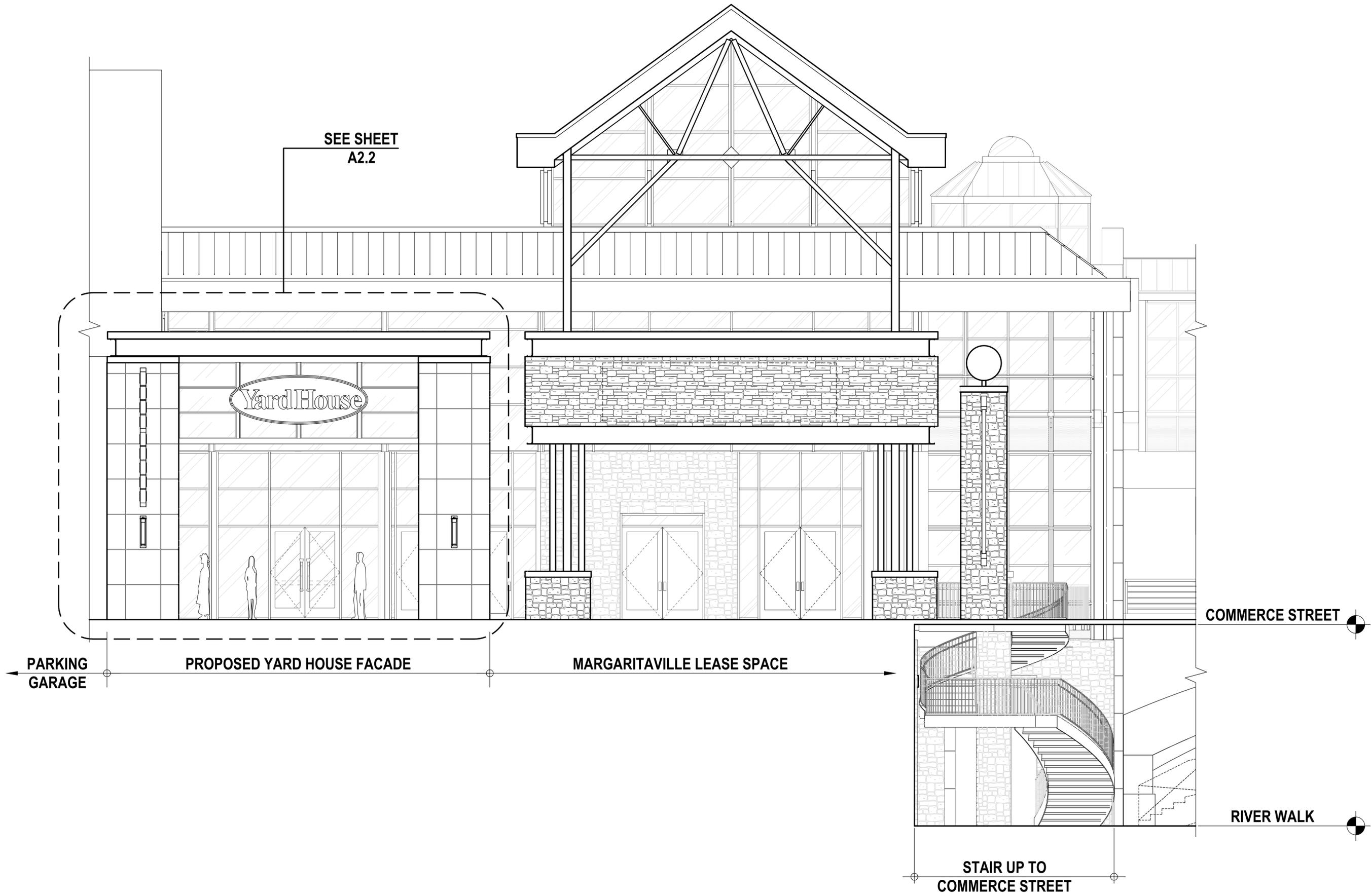
YARD HOUSE  
RIVERCENTER MALL  
849 E. COMMERCE ST.  
SAN ANTONIO, TX

Drawing

ENLARGED  
YH ENTRY  
PLAN

A1.2

# ENLARGED YARDHOUSE ENTRY PLAN



The Roberts Group  
PSC  
2880 Southland Drive - Lexington, KY 40503  
852-76-0007 / 852-76-2801 / Fax: 852-76-0008  
REGISTRATION # 9338

PROJECT NUMBER  
14077



Issue Date: 07/16/15

Restaurant #: 8362

YARD HOUSE  
RIVERCENTER MALL  
849 E. COMMERCE ST.  
SAN ANTONIO, TX

Drawing  
EXTERIOR  
ELEVATION

A2.1

**SOUTH BUILDING ELEVATION @ COMMERCE STREET**

OUTLINE OF RIVER  
CENTER BLDG. BEYOND

EXISTING BANDING -  
VENEER w/ PREFINISHED  
BLACK METAL

COPING - VENEER w/  
PREFINISHED BLACK  
METAL

PROPOSED VERTICAL  
YARD HOUSE SIGN

TRIM AND SIGN FINS -  
VENEER w/ PREFINISHED  
BLACK METAL (TYP.)

PROPOSED BACKLIT  
PANEL / LIGHT BOXES  
(TYP.)

PROPOSED YARD HOUSE  
FACADE SIGN MOUNTED  
ON FINS

EXTERIOR TILE FINISH  
ALL SIDES OF PIER(S)

PROPOSED LIGHTS /  
SCONCES EACH PIER

RIVERCENTER  
STOREFRONT (BEYOND)  
TO REMAIN

COMMERCE STREET

PARKING  
GARAGE

PROPOSED YARD HOUSE FACADE

MARGARITAVILLE  
LEASE SPACE

# PROPOSED YARD HOUSE ELEVATION @ COMMERCE STREET

PREFINISHED METAL: MITSUBISHI APOLIC 3mm MATTE BLACK  
EXTERIOR TILE: 32x32 MODE METROPOLIS "TITAN" PORCELAIN

The Roberts Group  
PSC  
2380 Southland Drive - Lexington, KY 40503  
852-76-0007 852-76-2801 Faxville  
REGISTRATION # 8338

PROJECT NUMBER  
14077



Issue Date: 07/16/15

Restaurant #: 8362

YARD HOUSE  
RIVERCENTER MALL  
849 E. COMMERCE ST.  
SAN ANTONIO, TX

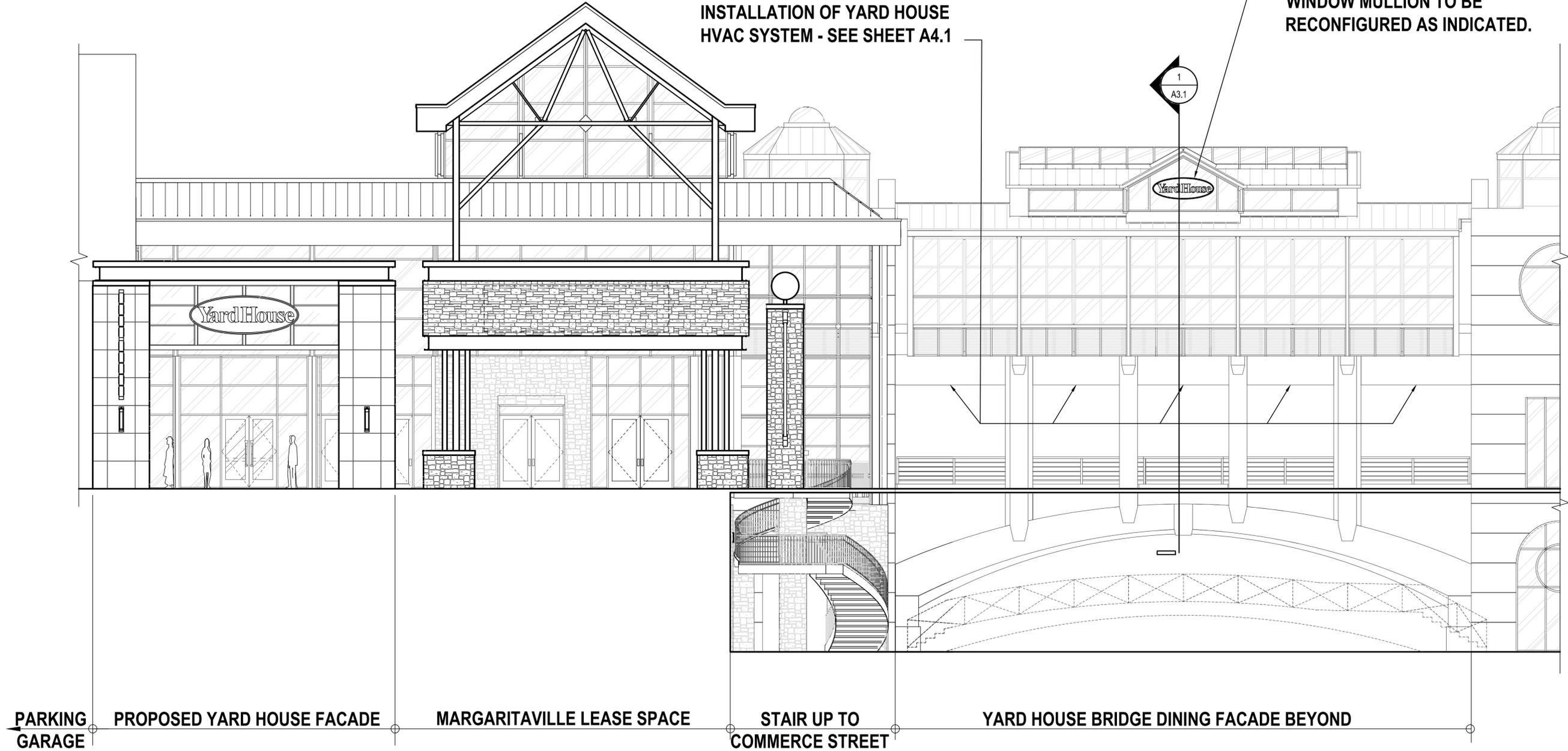
Drawing

EXTERIOR  
ELEVATION

A2.2

CEILING TO BE REMOVED AND REPLACED TO ACCESS UNDERSIDE OF BRIDGEWAY FOR INSTALLATION OF YARD HOUSE HVAC SYSTEM - SEE SHEET A4.1

PROPOSED SIGN LOCATION BEHIND STOREFRONT WINDOW. SEE BUILDING SECTION, SHT. A3.1. WINDOW MULLION TO BE RECONFIGURED AS INDICATED.



The Roberts Group PSC  
 2380 Southland Drive - Lexington, KY 40503  
 606-276-0007 / 606-276-2801 Fax  
 REGISTRATION # 9338

PROJECT NUMBER  
**14077**



Issue Date: **07/16/15**

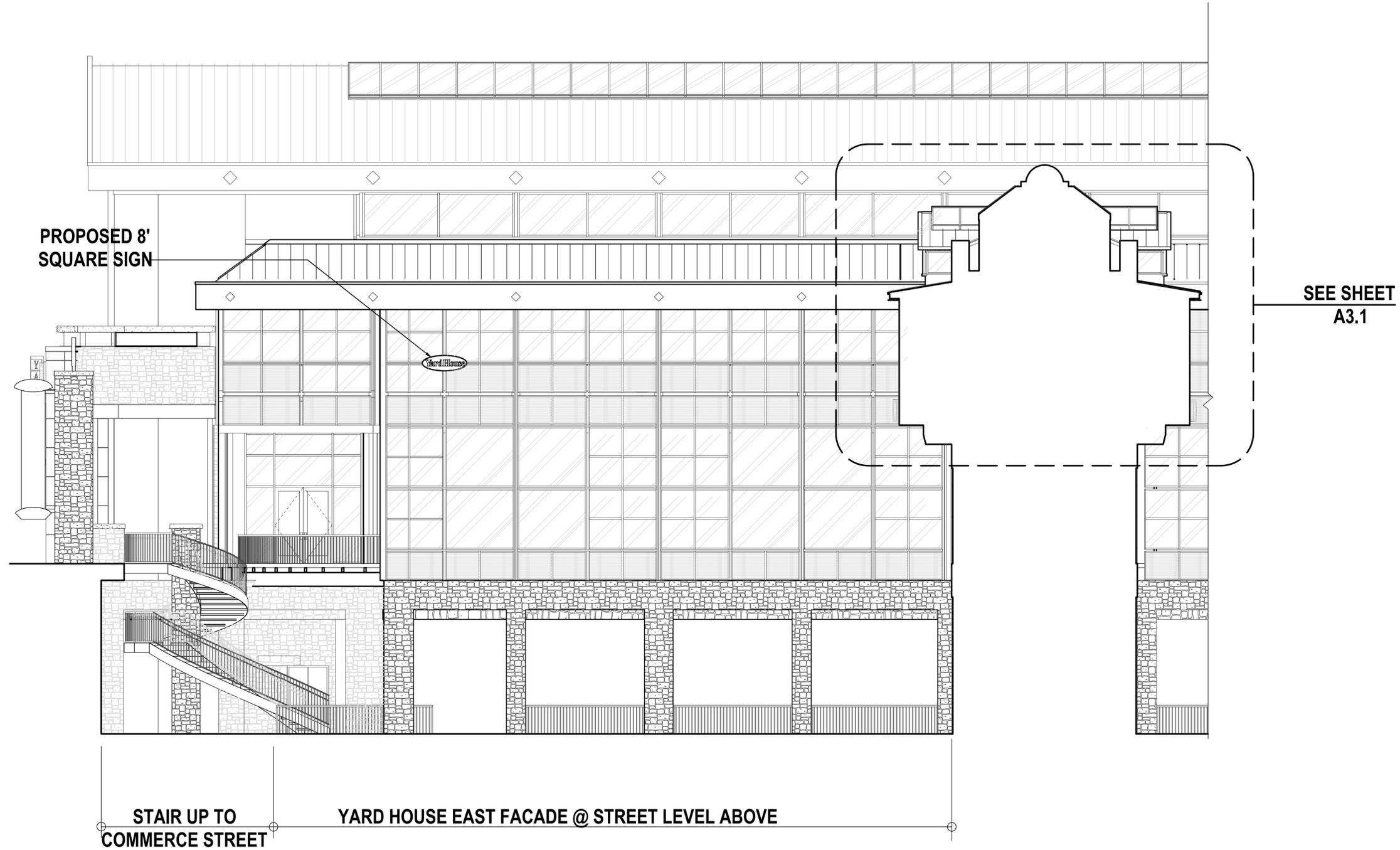
Restaurant #: 8362

YARD HOUSE  
 RIVERCENTER MALL  
 849 E. COMMERCE ST.  
 SAN ANTONIO, TX

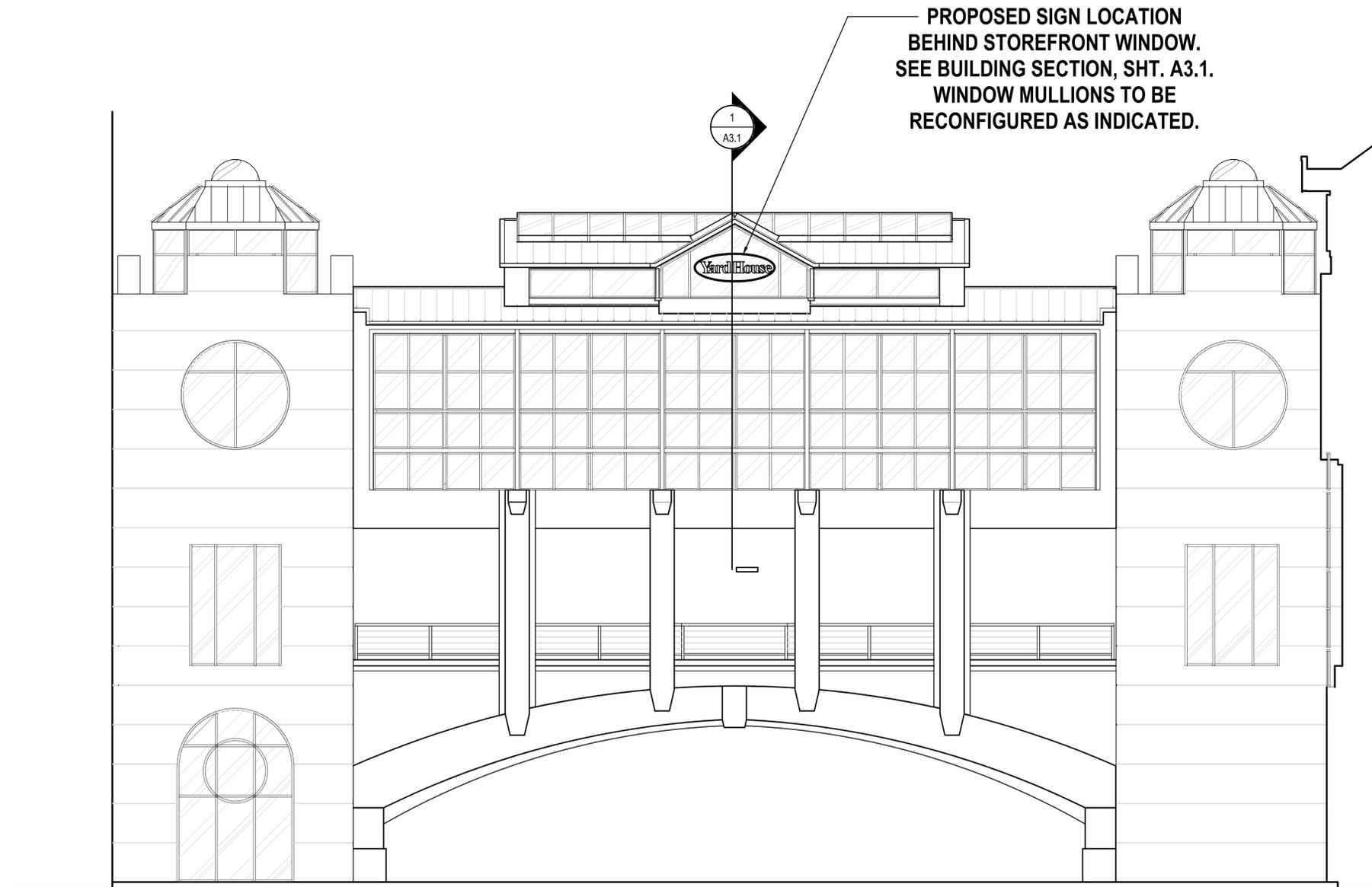
Drawing  
**EXTERIOR  
 ELEVATION**

**A2.3**

**SOUTH BUILDING ELEVATION @ COMMERCE STREET**



EAST BUILDING ELEVATION



**NORTH BUILDING ELEVATION FACING E. COMMERCE STREET**

*The Roberts Group* PSC  
 2330 Southland Drive - Lexington, KY 40503  
 606-276-2006 / 606-276-2001 Faxline  
 REGISTRATION # 0328

PROJECT NUMBER  
**14077**



Issue Date: **07/16/15**

Restaurant #: 8362

**YARD HOUSE**  
 RIVERCENTER MALL  
 849 E. COMMERCE ST.  
 SAN ANTONIO, TX

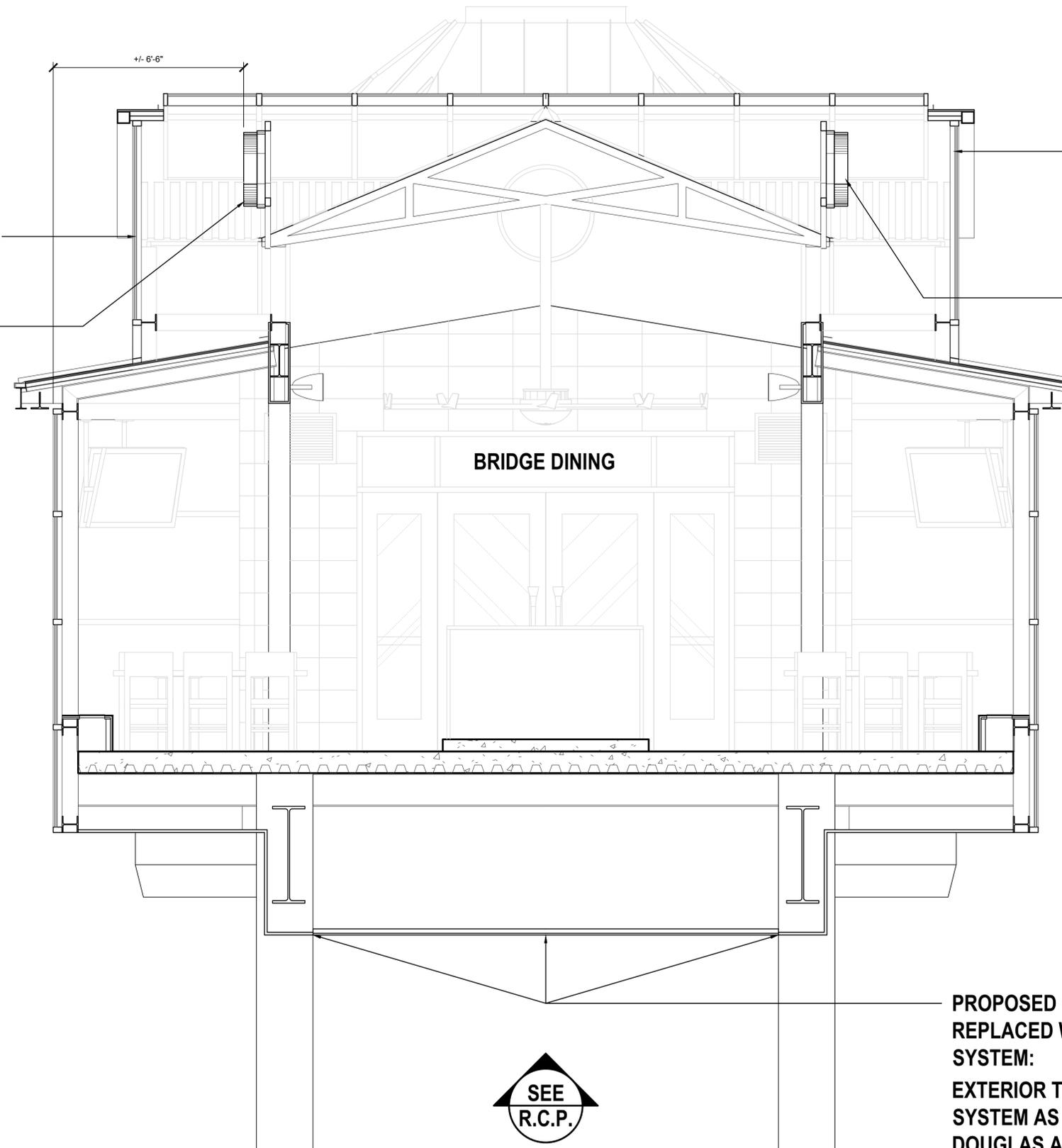
Drawing

**EXTERIOR  
 ELEVATION**

**A2.5**

FACE OF STOREFRONT  
GLASS. WINDOW MULLIONS  
TO BE RECONFIGURED AS  
INDICATED ON ELEVATIONS.

PROPOSED SIGN  
LOCATION



FACE OF STOREFRONT  
GLASS. WINDOW MULLIONS  
TO BE RECONFIGURED AS  
INDICATED ON ELEVATIONS.

PROPOSED SIGN  
LOCATION



SHEET A4.1

PROPOSED GYP. BOARD SOFFIT T.B.R. AND  
REPLACED WITH THE FOLLOWING CEILING  
SYSTEM:

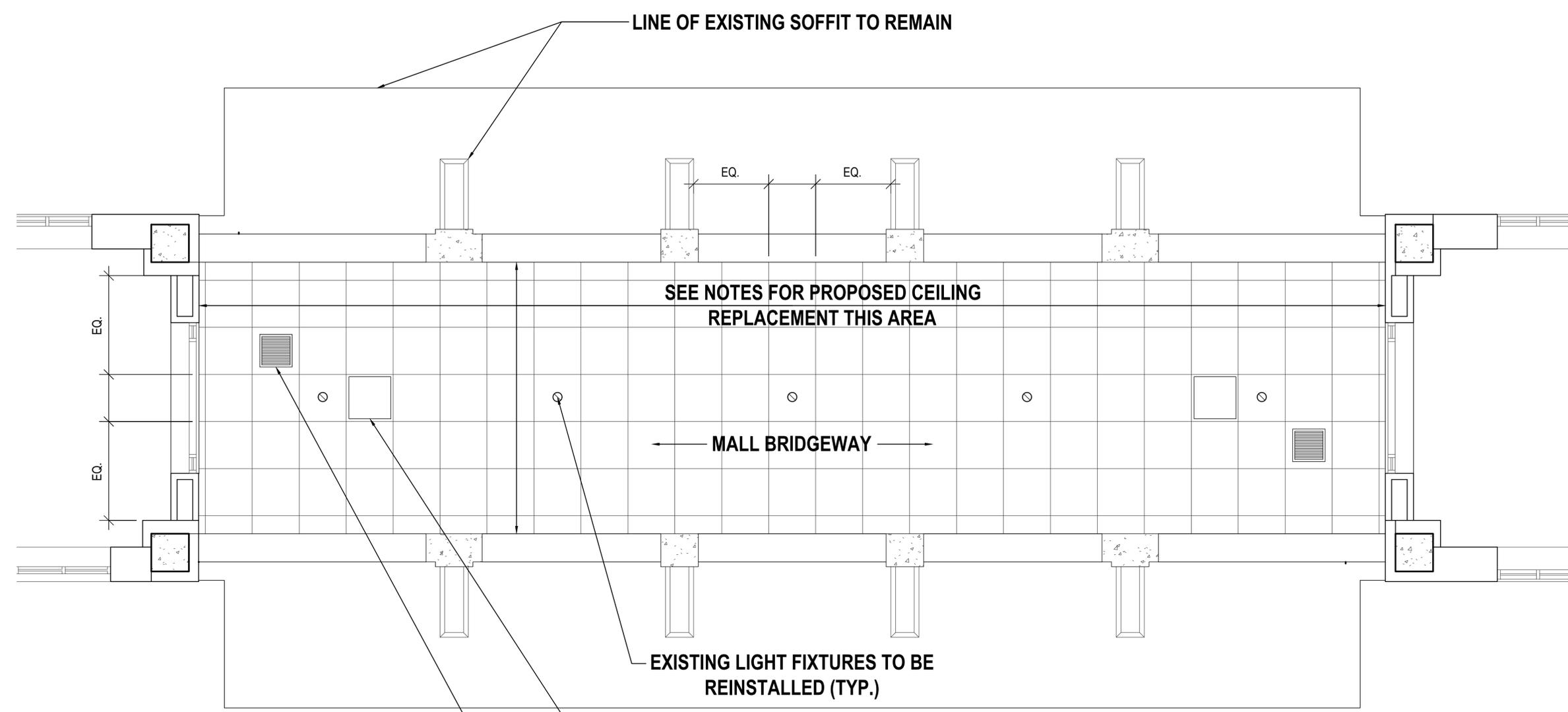
EXTERIOR TORSION SPRING CEILING  
SYSTEM AS MANUFACTURED BY HUNTER  
DOUGLAS ARCHITECTURAL PRODUCTS, INC.

CEILING SYSTEM SHALL BE EASILY  
REMOVABLE UPON ACCESS VIA 30"x30"  
ACCESS PANEL WHICH SHALL BE INTEGRAL  
W/ SYSTEM.

PANELS TO BE 30" X 30" "COTTON WHITE"  
COLOR

# BUILDING SECTION @ BRIDGE DINING





**NOTE: EXISTING CEILING TO BE REMOVED TO PROVIDE ACCESS FOR INSTALLATION OF YARD HOUSE HVAC SYSTEM. PROPOSED CEILING REPLACEMENT TO BE PER CEILING NOTES THIS SHEET**

**CEILING NOTES:**

**PROPOSED GYP. BOARD SOFFIT T.B.R. AND REPLACED WITH THE FOLLOWING CEILING SYSTEM:**

**EXTERIOR TORSION SPRING CEILING SYSTEM AS MANUFACTURED BY HUNTER DOUGLAS ARCHITECTURAL PRODUCTS, INC.**

**CEILING SYSTEM SHALL BE EASILY REMOVABLE UPON ACCESS VIA 30"x30" ACCESS PANEL WHICH SHALL BE INTEGRAL W/ SYSTEM.**

**PANELS TO BE 30" X 30" "COTTON WHITE" COLOR**

**ALL EXISTING LIFE SAFETY DEVICES, SIGNS, ETC., TO BE REINSTALLED @ SIM. LOCATIONS**

**REFLECTED CEILING PLAN @ BRIDGEWAY**