VANDERBILT UNIVERSITY

CAMPUS LANDSCAPE DESIGN STANDARDS

Updated 6/25/25

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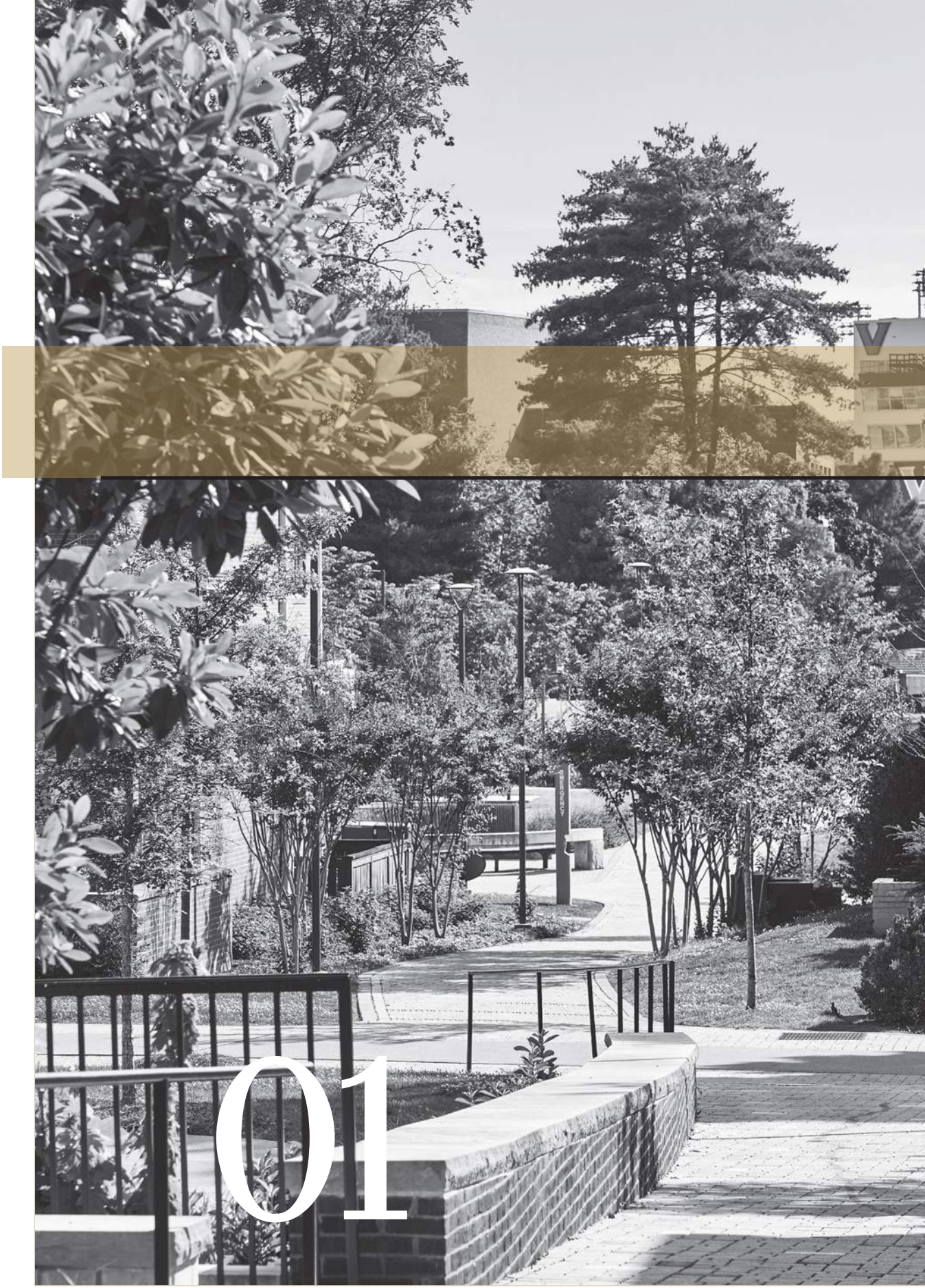


01

VISION

Vanderbilt University is characterized by its expansive and varied public realm that interweaves historical heritage with contemporary dynamism. From its arboretum's stately and diverse tree canopy to the vibrant outdoor spaces, the campus embodies a unique blend of tradition and modernity. In line with the vision established by the University's FutureVU master plan, these campus landscape design standards are crafted to further this legacy, ensuring that the outdoor spaces of the campus reinforce and support Vanderbilt's esteemed heritage and forward-looking ethos.

At the core of these standards is the commitment to enhance and preserve the university's distinct aesthetic and functional characteristics. They serve as a beacon, guiding the use of a wide range of landscape elements. This focused approach ensures that each element included herein resonates with the campus's architectural narrative and the natural beauty of its surroundings.

Recognizing the unique qualities of different campus zones, these standards thoughtfully delineate standards for both historic and contemporary areas (Figure 1.0). The Historic Standards Zone (HSZ), encompassing the university's original historic core neighborhood and the Peabody campus, is treated with reverence for its storied past. Here, the standards strive to continue the campus' architectural integrity and the timeless charm of these areas of campus.

Conversely, in the contemporary zones, the standards pivot towards modernity, embracing a more flexible and complementary design ethos while maintaining a cohesive campus identity. This delicate balance ensures that Vanderbilt's evolution is both respectful of its roots and ambitious in its future endeavors.

CAMPUS ZONES

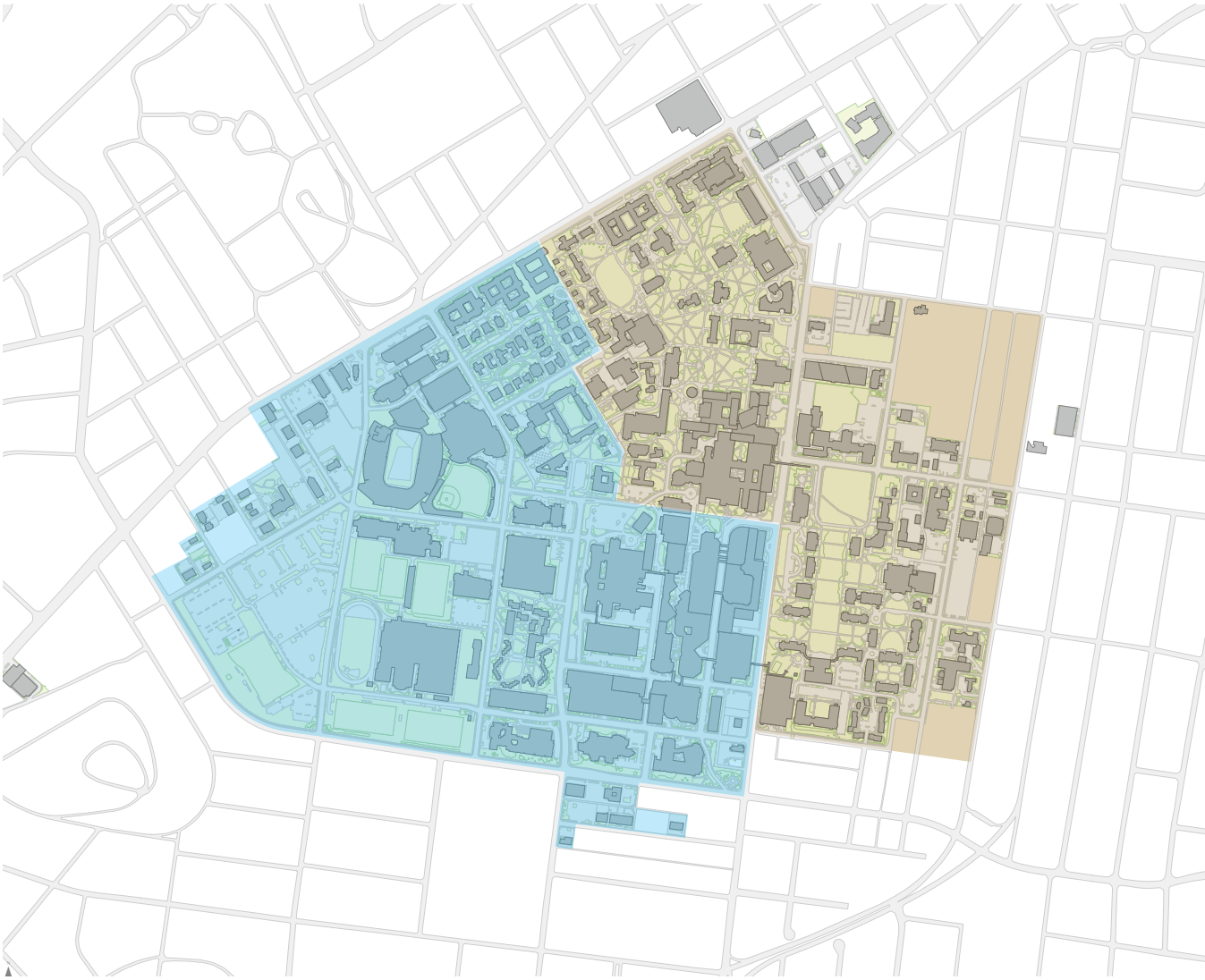


FIGURE 1.0 Campus Zones for Application of Design Standards

LEGEND

H HISTORIC STANDARD

C CONTEMPORARY STANDARD

Design Standard Goals

- **Commitment to Aesthetic and Functional Enhancement:** Emphasizes enhancing and preserving Vanderbilt University's unique aesthetic and functional characteristics.
- **Standards for Historic and Contemporary Areas:** Establishes distinct standards for both historic and contemporary areas of the campus, ensuring a respectful balance between tradition and modernity.
- **Reflection of Best Practices and Future Roadmap:** Presents the standards as not only reflecting current best practices but also serving as a roadmap for future excellence in campus development.
- **Realizing FutureVU Aspirations:** Highlights the standards as a critical step in realizing the aspirations of the FutureVU master plan, aligning campus development with the university's strategic vision.
- **Broad and Specific Application:** Application of these standards is comprehensive, covering aspects of durability, functionality, and aesthetic appeal to create a beautiful, sustainable, and community-focused campus environment.
- **Designed for Adaptation and Expansion:** Acknowledges that the standards are intended to be adaptable and expandable, evolving with the university's changing needs and aspirations.
- **Strategic Planning and Consistent Framework:** Defines the standards as an essential tool for strategic planning, offering a clear and consistent framework for landscape architectural improvements.
- **Baseline for Design Quality and Performance:** Establishes minimum standards for design quality and performance, setting a foundational baseline for all aspects of Vanderbilt University's campus development.

Throughout this document, the two symbols shown in the legend in Figure 1.0 will be used to identify which zones each design element or material can be used.

As a living document, these standards are not just a reflection of current best practices but a roadmap for future excellence. They serve as a crucial tool in budgeting and project planning, offering a clear vision for upcoming developments. Moreover, they establish a baseline for quality and performance, ensuring that even the most unique and ambitious projects align with the university's overarching standards.

In essence, these design standards are more than just a set of rules; they are a testament to Vanderbilt University's dedication to creating a campus that is as inspiring as it is functional and as beautiful as it is practical. They are a crucial step in realizing the aspirations of FutureVU, bringing to life a campus that is a place that supports its mission and encourages learning and exploration.

The application of these standards is both broad and specific. They encompass the selection and implementation of materials for pavements, the design of site walls, stairs, and other structural elements, and the careful integration of site furniture and lighting. Each choice is made with an eye towards durability, functionality, and aesthetic appeal, ensuring that the campus environment is not only beautiful but also sustainable and conducive to the well-being of its community.

As a living document, these standards are designed to be adapted and expanded. They are designed to evolve with the changing needs and aspirations of the Vanderbilt community. This flexibility allows for the standards to be a relevant and effective tool in the ongoing narrative of the campus, guiding its growth and evolution.

Central to these standards is their role as a catalyst for thoughtful, well-informed campus development. They serve as a foundational blueprint, guiding the enhancement of the university's landscape with an acute awareness of its storied past and a keen eye on future potential. In this regard, the standards are a crucial tool for strategic planning, providing a clear, consistent framework for landscape architectural improvements. They ensure that each development, whether a subtle enhancement or a major transformation, aligns with the overarching vision and character of the campus.

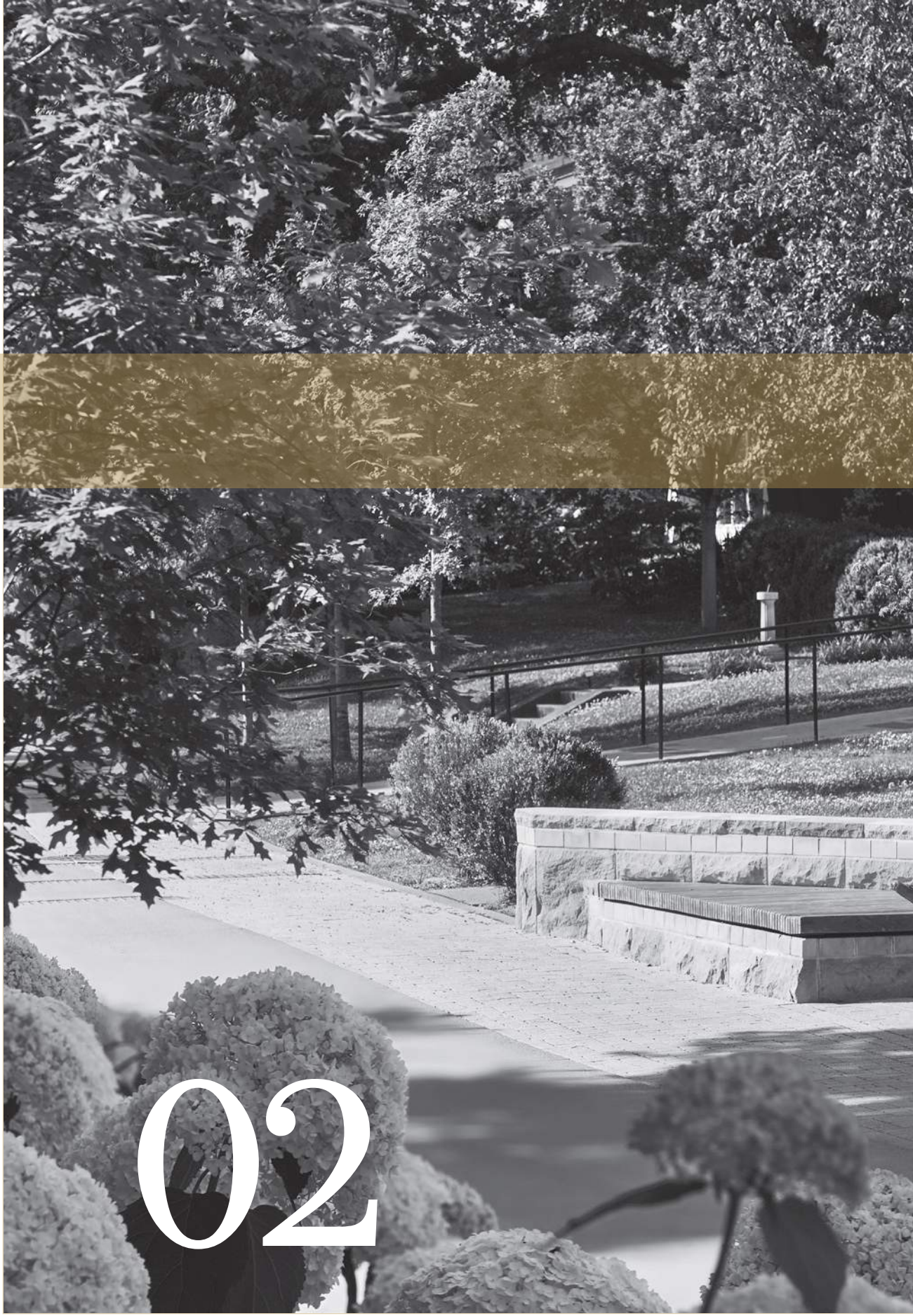
Moreover, these standards embody the principle of responsible stewardship. By establishing minimum standards for design quality and performance, they not only set the bar for current projects but also lay down a pathway for future developments. This foresight is instrumental in budgeting and resource allocation, enabling the university to plan and execute projects with efficiency and clarity of purpose.

These campus landscape design standards recognize that special

projects may require a departure from standard practices. This flexibility acknowledges that unique design challenges and opportunities often arise in such projects, necessitating a tailored approach. The design standards.

The design standards set forth in these guidelines represent the foundational baseline for Vanderbilt University's campus development. They are intended as minimum standards, ensuring a consistent level of quality and coherence across the campus. However, it is recognized that in the context of significant capital projects, strict adherence to these standards may not always be the most suitable approach.

For large-scale projects, there may be instances where deviation from these established standards is necessary to ensure the continuity and integrity of the project's design and materials. In such cases, flexibility is afforded to accommodate the unique requirements and design objectives of these projects. This approach allows for a harmonious integration of new developments with the existing campus fabric, ensuring that each project contributes meaningfully to the overall aesthetic and functional landscape of Vanderbilt University.



02

PAVEMENTS

Pavements serve as the crucial connective fabric binding together spaces throughout the campus landscape. They define pedestrian and vehicular circulation routes and gathering areas, making material choice vital in supporting campus character. As primary circulation and gathering space elements, pavements play an integral role in shaping campus experience.

This section outlines the standards for different pavement applications, providing a foundational design guide with some degree of flexibility. It defines the minimum campus standards for each type of pavement. However, it does not necessarily dictate where they should be used. A wide range of pavements are inlcuded ranging from enhanced concrete, concrete pavers, and stone pavement, and other landscape materials.

For all pavement types, it is required to have a minimum of 16ft mock-up of color, mix, and finish of pavement for applicable pavement for the final approval by the university landscape architect. Refer to the University specifications for additional information. Mock-ups to be maintained until acceptance of project unless their removal is approved by the university landscape architect.

Concrete Pavement

Concrete is a fundamental component of Vanderbilt University's campus, primarily used in the construction of sidewalks. Historically, the concrete pavement has featured an "old mix" (Legacy Mix) with an exposed aggregate finish, a characteristic especially prevalent in the more traditional and historic areas of the campus. Moving forward, the established standard for all new concrete pavement will be a "new mix" with a surface retarded finish.

For maintenance and repair purposes when replacing small sections and individual panels, the specifications and details of the old mix will be retained. This approach ensures that existing pavement, particularly in areas of historical significance, can be appropriately maintained and repaired in keeping with their original style.

To maintain a consistent and high-quality finish across the campus, the use of unexposed concrete and broom finishes will not be permitted, except in cases where sidewalks must comply with the Metro Nashville standard concrete specifications within the public ROW.

*

LEGACY CONCRETE MIX AND FINISH
Product: VU 35210 Old Light Mix

Application: ONLY in existing areas within the historic campus at the descretion of the University landscape architect

Dimensions:
- 6" thickness (Pedestrian Zones)
- 8" thicness (Reinforced - Refer to specifications)

Finish: Exposed aggregate Topcast 150
Manufacturer: gcp https://gcpat.com

H

C

NEW CONCRETE MIX AND FINISH
Product: VU 35210 New Light Mix
Application: In all 'Historic' and Contemporary areas of campus.

Dimensions:
- 6" thickness (Pedestrian Zones)
- 8" thicness (Reinforced - Refer to specifications)

Finish: Surface Retarded finish, Topcast 05
Manufacturer: gcp https://gcpat.com

Existing Examples:

Old concrete mix at the Owen School of Management.

New and old concrete mixes.

New concrete mix at the West End Neighborhood.

Pavers

The variety of paver options specified in this section is intended to visually differentiate between vehicular and pedestrian areas on campus. The chosen colors and finishes provide a foundational basis for design quality. The use of **natural smooth face pavers is not permitted under these guidelines.** Deviation from these colors and finishes must be approved by the university landscape architect.

These specified pavers also have the capability to function as permeable solutions, which can be particularly useful in areas required to meet Metro Nashville stormwater management standards. Incorporating permeable pavers is encouraged where feasible as part of Vanderbilt University's broader commitment to sustainability in campus landscaping.

All visible concrete curb restraints to have appropriate Vanderbilt finished concrete (see concrete pavement) or match existing context.

H

C

Product: Prest Paver - Vehicular

Color: Standard Cream
Vehicular pavers - Standard Cream

Dimensions: 4"x8"x3"

Finish: Tudor

Manufacturer:
Hanover
1-800-426-4242
www.hanoverpavers.com

H

C

Product: Prest Paver - Pedestrian

Color: Matrix #B9917

Dimensions: 4"x8"x3"

Finish: Tudor

Manufacturer:
Hanover
1-800-426-4242
www.hanoverpavers.com

Existing Examples:

Vehicular Pavers at Kirkland Esplanade. The herringbone layout lined with a double header border is the preferred pattern.

Owen Graduate School of Management. Plank pavers used in context with architectural project

Pedestrian pavers at Kirkland Esplanade. The herringbone layout lined with a single stretcher border is the preferred pattern.

Nicholas S. Zeppos Residential College. Pavers used in context with architectural project

Pavers at West End Neighborhood. Special paving patterns that deviate from solid color fields can be done with the approval of the Vanderbilt Universiy campus landscape architect.

Stone

Stone pavement, particularly limestone, is an excellent choice for creating a distinctive look in high-visibility, pedestrian-only areas of the campus. Its unique texture and color make it ideal for accentuating these zones, though it is best suited for minimal light weight traffic areas to maintain its aesthetic appeal.

For pavement applications, it's important to use sawn cut pavers that are slip-resistant, ensuring safety and consistency in appearance.

Stone pavements are generally not suitable for pervious pavement applications. This is primarily due to challenges in maintaining consistent joint spacing, which is crucial for permeability. Additionally, stone pavements typically do not comply with Metro Nashville's stormwater management standards.

H

C

Product: Indiana Limestone

Color: Buff or Variegated

Finish: Sawn Thermal Finish

Notes:

1. Blue Gray Sandstone or Penn Blue Stone is acceptable for pavements upon approval by the University landscape architect.

2. Minimum thickness for pedestrian application is 2 inches.

3. All joints to be sand swept with polymeric sand to match stone.

4. All stone pavement to be dimension cut stone. No flagstone pavement is acceptable.

Existing Examples:

Stone paving at Zeppos Residential College.

Stone paving at Zeppos Residential College.

Stone paving at 9th and Grand building

Decomposed Granite

Decomposed granite is an effective paving choice for low-traffic, peaceful areas on campus, suited to spaces designed for quieter pedestrian activities. When using decomposed granite, stabilizers should be incorporated to ensure ADA accessibility and maintain surface stability.

This paving material is not recommended for slopes over 5% due to erosion risks. Its abrasive nature also makes it unsuitable near building entries or sensitive pavements, as it can cause damage when tracked on shoes. Decomposed granite requires regular maintenance, including surface grooming and material replenishment, to keep it level and visually appealing.

Additionally, decomposed granite is not appropriate for vehicular traffic areas. It's best utilized in pedestrian zones where its natural aesthetic can be appreciated without being compromised by heavy use. Due to quality challenges in alternate materials and mixes, the University will only consider the pre-mixed stabilized granite product from Kafka Granite.

H

C

For <3% slopes and good drainage;

Product: Stabilized Pathway Mix

Color / Finish: Cajun Spice

For >3% slopes:

Product: Wax Polymer Mix

Color / Finish: Platinum Granite

Manufacturer:
Kafka Granite, LLC
800-852-7415
www.kafkagranite.com

Edging
Product: CleanLine

Manufacturer:
Permaloc
800-356-9660
www.permaloc.com

West End Neighborhood

River Rock

River rock is an effective material for the campus landscape, especially in areas prone to erosion or where reducing pedestrian traffic is desired. Its natural look aids in controlling erosion and is well-suited for bioretention and stormwater management features, adhering to Metro Nashville Stormwater Standards.

While requiring minimal maintenance, river rock should be periodically inspected and cleaned, particularly in water management areas. Careful placement is important to avoid potential tripping hazards in pedestrian zones. Its use strategically enhances campus safety and aesthetics, aligning with the university's environmental and functional goals.

H

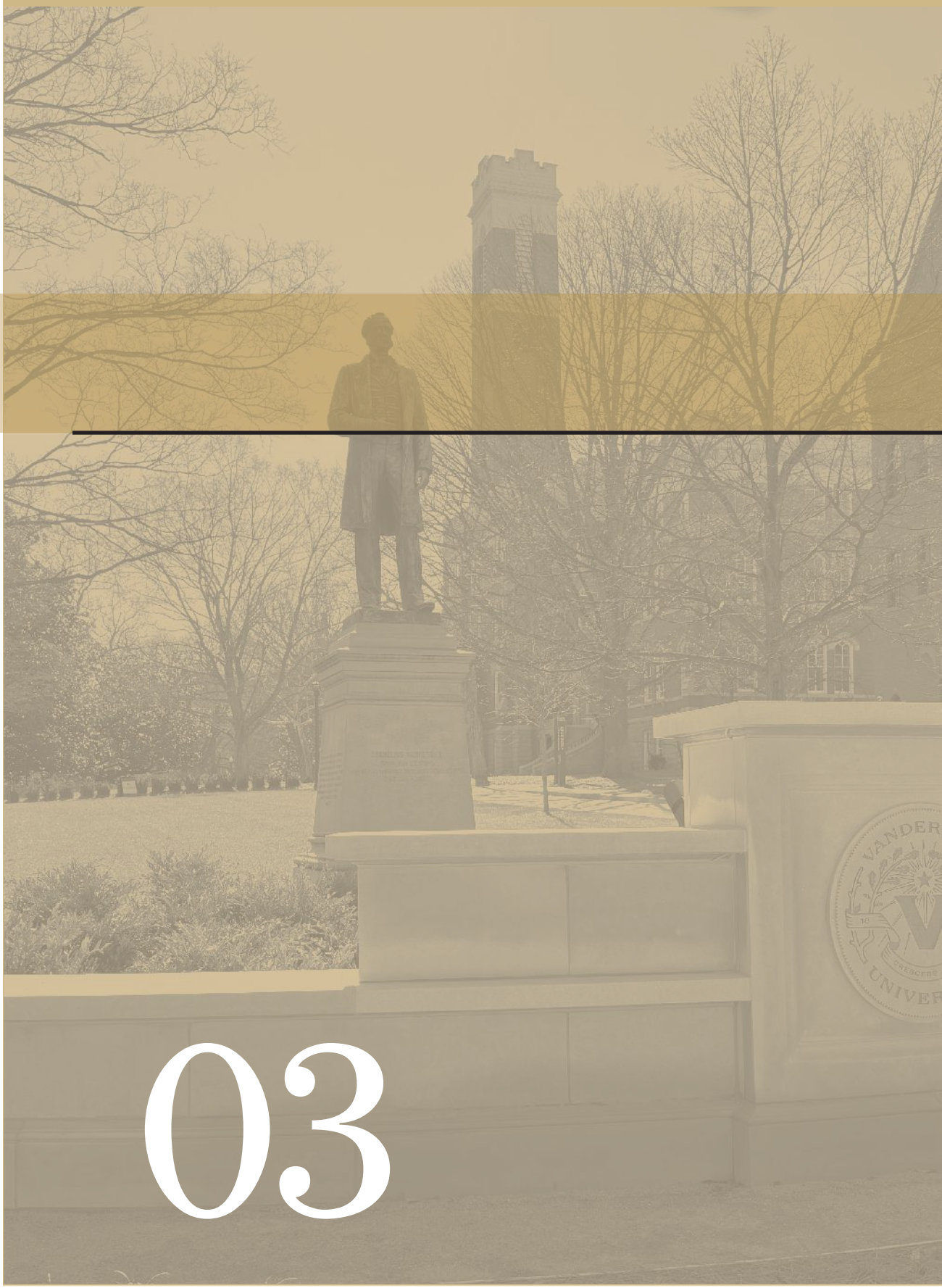
C

Product:River Rock

Color / Finish: Colorado River Rock

Size: 4-6”

Manufacturer:
The Rock Place
615-459-9200
www.therockplacetn.biz



03

SITE WALLS

Vanderbilt University's varied terrain necessitates the use of site walls to manage elevation changes effectively. These walls are not only functional in addressing topography but also offer versatile finish options tailored to specific project needs, budgets, and contexts.

Site walls serve a dual purpose: they are key in shaping the campus landscape and essential in guiding pedestrian and vehicular movement. They mark significant campus gateways, academic buildings, and outdoor areas, provide seating opportunities, and contribute to the overall safety and visual coherence.

This section details the range of materials suitable for site walls, emphasizing their suitability for various applications while aligning with the campus's aesthetic and architectural standards.

Brick

Brick walls are a defining feature of Vanderbilt University's campus, closely tied to its architectural heritage. Commonly used across the campus, they contribute significantly to the university's distinct character. In the historic areas of the campus, it's appropriate to use traditional wall caps with an overhang, reflecting the classic aesthetic of these zones. Conversely, in contemporary areas, a modern approach can be adopted, with wall caps flush with the wall to suit the newer architectural style.

Regardless of the area, attention to detail is paramount: corners must be mitered, and edges should feature a chamfer or radius to ensure a polished and cohesive appearance. All brick walls should have a solid sloped limestone cap.

H

Product: Facebrick

Color: 47HB - Brown

Style: Molded - Woodmold
(Mid-Atlantic Plant)

Notes: Limestone wall cap with min 1" overhang and drip edge.Flemish bond or Running Bond brick pattern.

Manufacturer / Supplier: Glen-Gery
(484) 334-8827, www.glengery.com

C

Product: Facebrick

Color: 47HB - Brown

Style: Molded - Woodmold
(Mid-Atlantic Plant)

Notes: Wall cap with overhang or flush with the brick veneer. Flemish bond or Running Bond brick pattern.

Manufacturer / Supplier: Glen-Gery
(484) 334-8827, www.glengery.com

Existing Examples:

Brick wall at Peabody campus.

Brick wall and column at E. Bronson Ingram College building.

Brick veneer wall at West End Neighborhood.

Stone

As campus evolves, stone is emerging as an increasingly popular material for both buildings and site features, complementing the traditional brick character of the campus. Designers are encouraged to consider stone for site walls, recognizing its growing prominence and aesthetic harmony with the existing campus environment.

The application of stone in site wall construction should be context-sensitive, aligning with the specific requirements of each project's location, intended use, and budgetary constraints. Its natural texture and varied color palette make stone a versatile choice, capable of enhancing both contemporary and traditional spaces on the campus. Incorporating stone into site walls not only diversifies the material palette but also enriches the architectural dialogue between new and existing structures.

H

C

Product: Indiana Limestone

Color: Variegated

Finish: Appropriate to context.

Supplier:
Bybee Stone Co.
800-457-4530
www.bybeestone.com

Notes:

1. Crab Orchard Stone is acceptable upon approval by the University landscape architect.

Type: Free-standing wall / column
Finish: Smooth

Type: Retaining wall
Finish: Split-face

Existing Examples:

Stone veneer walls at Kirkland Hall.

West End Neighborhood plinths

Stone paving at Zeppos Residential College.Free-standing stone veneer wall at Calhoun Hall.

West End Neighborhood seat wall

Field stone wall at Peabody campus.

Concrete

On Vanderbilt University's campus, the use of exposed concrete walls is restricted to areas that are not in direct view of the public. This approach is in line with the campus's aesthetic standards, ensuring that the more utilitarian look of concrete is reserved for service areas and other less visible locations. Any implementation of concrete walls must be accompanied by measures to screen them from public view, maintaining the visual integrity of the campus.

Additionally, the use of these walls requires the explicit approval of the campus landscape architect. This measure ensures that any application of concrete walls aligns with the overall landscape strategy and aesthetic considerations of the university. It is important to note that unfinished or coated concrete walls are not permitted under any circumstances, reinforcing the commitment to maintaining the campus's visual appeal and architectural consistency.

H

C

Product: Cast in Place

Mix: 35210 New Light Mix

Finish: Surface Retarded finish, Durotard 05 or light sandblast

Manufacturer:
GCP
www.gcpat.com

04

STAIRS

Stairs are a common and necessary feature on Vanderbilt University's campus, serving a vital role in guiding users to the main entrances of academic buildings and managing the terrain's natural grade changes along pathways. Their careful placement is essential for effective campus navigation, enhancing both the functionality and aesthetics of the landscape.

While stairs are important for elevation transitions, their use should be considered only where absolutely necessary. In every area where stairs are implemented, it is crucial to provide alternative routes that are accessible to all, upholding the university's commitment to inclusivity and ease of movement for every member of the campus community.

For stairs that include cheek walls, designers should consult the guidelines outlined in the site wall section. This ensures that the materials and design of the cheek walls are consistent with the overall architectural style and material palette of the campus. By doing so, the stairs not only meet practical requirements but also contribute to the cohesive visual identity of the university.

Precast Stairs

Precast concrete stairs are the preferred choice on campus due to their consistent quality in finish, mix, and profile, qualities that are challenging to achieve with cast-in-place methods. This preference stems from the need for uniformity and precision in campus infrastructure, ensuring that every element aligns with the university's high standards.

The use of precast concrete in stair construction offers several advantages. It ensures a uniform appearance across various locations on campus, providing a coherent visual experience. The controlled manufacturing process of precast concrete allows for exact specifications to be met.

Safety is a paramount concern in all campus features, and stairs are no exception. To this end, all precast concrete stairs on campus are required to have a slip-resistant finish. This critical feature enhances safety for all users, regardless of weather conditions or foot traffic levels.

H

C

Product: Precast Stairs

Color: GP-12

Finish: Acid

Manufacturer: Georgia Precast Solutions
https://www.georgiaprecast.com

1. Steps to be monolithic.

Stone Stairs

In high-profile areas and architectural entries, stone stairs are often the most fitting choice, especially when aligning with the historic character of the campus. Stone stairs, with their natural elegance and durability, are typically reserved for areas where their aesthetic value and historical resonance are paramount. They are especially suited to complement the traditional architecture found in many parts of the campus, contributing to the preservation of its rich heritage.

Indiana limestone is often the starting point for stone stair materials due to its compatibility with the campus's architectural style. However, recognizing that each project has its unique context and requirements, alternative stone materials may be considered. In such cases, selection of a different stone type requires prior approval from the University campus landscape architect.

H

C

Product: Indiana Limestone

Color: Buff or variegated

Finish: Smooth

Manufacturer: TBD

Notes:

1. Stone steps to be monolithic.
2. Crab Orchard Stone is acceptable upon approval by the University landscape architect.

Concrete Stairs

In the context of Vanderbilt University's campus landscape, the use of cast-in-place concrete stairs has historically presented challenges in terms of achieving consistency in finish, color, and profile. Due to these variations, the application of cast-in-place concrete stairs is now specifically limited to utilitarian or service areas that are not in public view.

This limitation is in place to ensure a cohesive aesthetic standard across the campus, particularly in areas frequented by the university community and visitors. Cast-in-place concrete stairs, while practical and functional, may not consistently align with the desired visual quality and uniformity in more prominent locations.

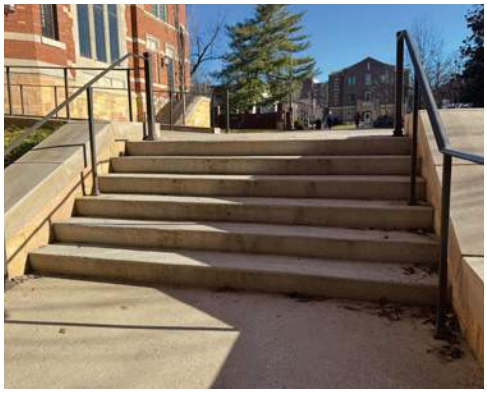
H

C

Product: CIP Concrete

Color / Finish: To match the VU 35210 New Light Mix

Manufacturer: TBD



Handrails

H
C

Product: Steel Handrails
Color / Finish: Black Semi-Gloss

Notes:

1. All handrails to be compliant with applicable International Building Codes and the Americans with Disabilities Act(ADA).
2. All handrails to be galvanized and painted with high performance paint.
3. Lighted handrails can be used where appropriate.

H

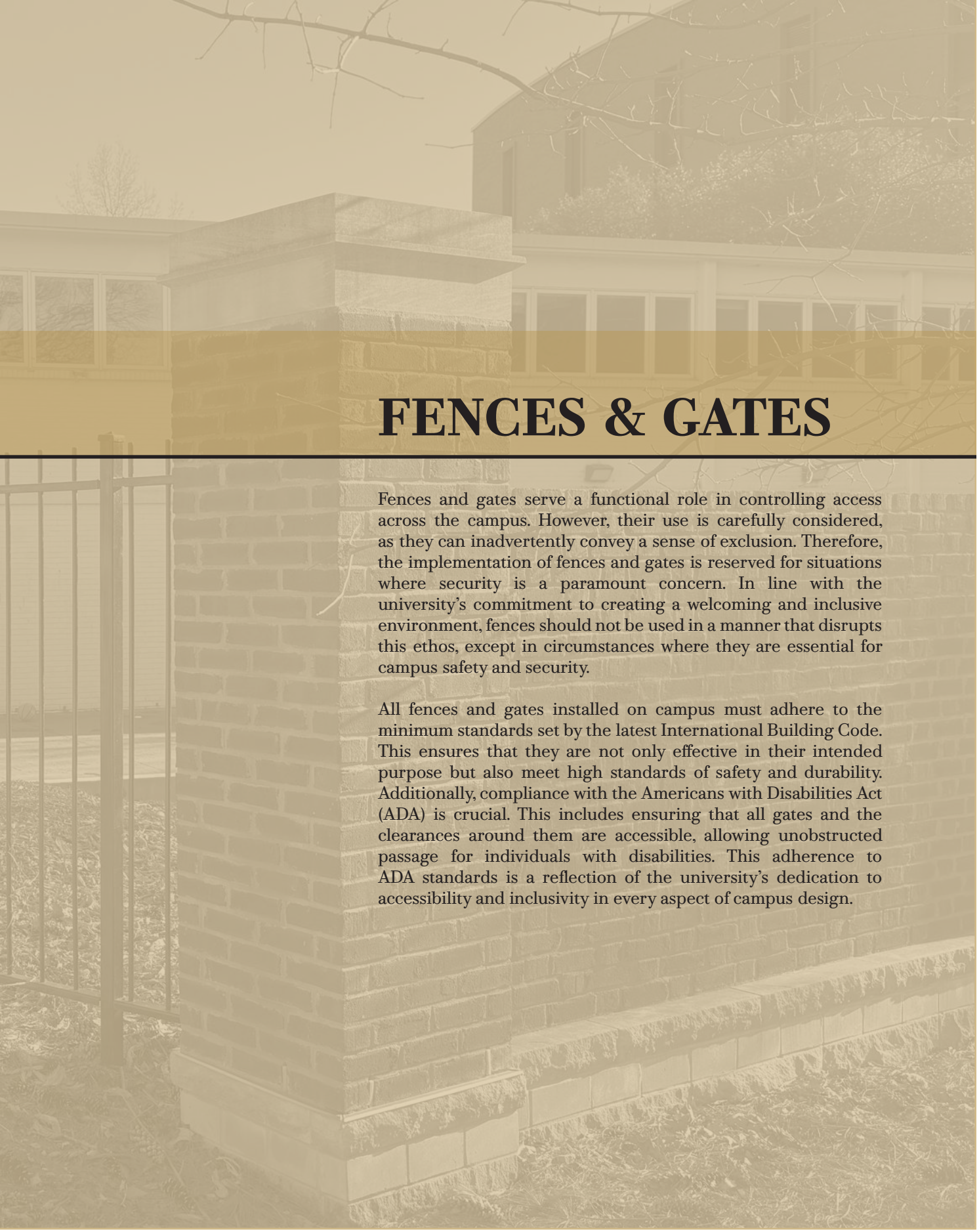
Historic Alternate
Product: Steel Handrails
Color / Finish: Black Semi-Gloss

PROFILE: Handrail Moulding #4429 with lambs tongue ends
Manufacturer: Julius Blum & CO.
https://www.juliusblum.com

Notes:

1. Use upon approval by University landscape architect

05



FENCES & GATES

Fences and gates serve a functional role in controlling access across the campus. However, their use is carefully considered, as they can inadvertently convey a sense of exclusion. Therefore, the implementation of fences and gates is reserved for situations where security is a paramount concern. In line with the university's commitment to creating a welcoming and inclusive environment, fences should not be used in a manner that disrupts this ethos, except in circumstances where they are essential for campus safety and security.

All fences and gates installed on campus must adhere to the minimum standards set by the latest International Building Code. This ensures that they are not only effective in their intended purpose but also meet high standards of safety and durability. Additionally, compliance with the Americans with Disabilities Act (ADA) is crucial. This includes ensuring that all gates and the clearances around them are accessible, allowing unobstructed passage for individuals with disabilities. This adherence to ADA standards is a reflection of the university's dedication to accessibility and inclusivity in every aspect of campus design.

Site Fences

When perimeter fences are necessary for security on campus, they must enhance and align with the campus's overall aesthetic. Consistency in their design is crucial, with all fences required to match in material, finish, and color. Steel is the preferred material for these fences, chosen for its durability and strength, which contributes to both long-term resilience and a unified visual presence throughout the campus. To integrate these fences more seamlessly into the campus environment, any long stretches of fencing, exceeding 25 feet, intermittently segmented with columns should be considered. The columns not only breaks up the monotony of long fence lines but also contributes to the cohesive architectural aesthetic of the university.

Where appropriate, fences can also serve as a medium for campus branding. Fences and columns can also be used to establish gateway features on campus. They may feature design elements such as plaques or ornamental details that incorporate the university's logo or other symbolic motifs. The inclusion of such features will be context-dependent, tailored to suit the specific location and purpose of the fence, while contributing to the visual identity of the campus.

Dense tall evergreen shrubs that mature at a minimum of 6ft can be used as screening. However, they cannot be used when security is required. In these cases, evergreen shrubs can be used in conjunction with the fencing to augment screening.

H

C

Product: Montage II (Steel)

Style: Genesis

Color: Painted Steel (Semi-Gloss Black)
PPG-PITT-TECH Plus | 90-1110 Series-Gloss

Manufacturer:
Ameristar Security Products
888-333-3422
www.ameristarperimeter.com

Existing Examples:

West End Neighborhood Fencing

West End Neighborhood Fencing with Landscape

Gates

Gates at Vanderbilt University are primarily installed as security measures at key entry points to academic and residential buildings. To ensure visual coherence across the campus, these gates are required to match the fences in terms of design, color, and finish.

All gates must be ADA accessible, providing the necessary clearances for ease of access. In addition to meeting accessibility standards, gates should be designed to be self-closing and self-latching, an important feature to ensure they remain securely closed and contribute to a neat and orderly campus appearance.

For emergency egress, gates in relevant locations should be equipped with panic hardware to facilitate quick and safe exits. Coordination with campus security is essential in the design and implementation of gates.

H

C

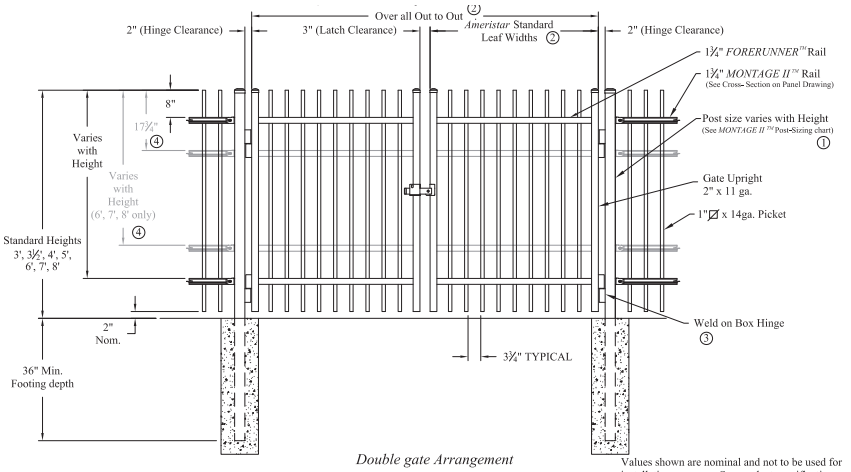
Product: Montage II Gate

Style: Genesis

Dimensions: 6ft panels

Color: Painted Steel (Semi-Gloss Black)
PPG-PITT-TECH Plus | 90-1110 Series-Gloss

Manufacturer:
Ameristar Security Products
888-333-3422
www.ameristarperimeter.com

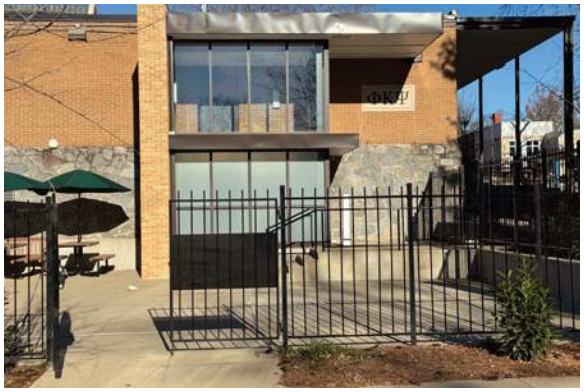


Double gate Arrangement

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

INDUSTRIAL STRENGTH STEEL

Existing Examples:



Gate in West End Neighborhood

06

SITE FURNITURE

Site furniture is a vital and multifaceted element within Vanderbilt University's campus landscape. It encompasses a variety of functions, ranging from offering seating options and waste collection facilities to aiding in traffic control, providing bike parking solutions, and adding aesthetic value with decorative grates. The assortment of site furniture detailed in this section is carefully chosen to achieve two primary goals: to maintain a consistent character throughout the campus and to optimize operational efficiency and ease of maintenance.

In selecting these pieces, a key consideration is compliance with the Americans with Disabilities Act (ADA) standards. This ensures that all site furniture is accessible and usable by everyone on campus, aligning with Vanderbilt University's commitment to inclusivity and functionality. The chosen furniture not only complements the visual fabric of the university but also supports the diverse needs of the campus community, contributing to a welcoming and well-functioning outdoor environment.

Site Benches

Benches on Vanderbilt University's campus are strategically placed to enhance the outdoor experience, primarily positioned along pathways and near building entrances. Due to their fixed nature, the use of benches should be considered carefully, ensuring they are placed only where most beneficial. This selective approach helps maintain open, flexible spaces while providing seating where it is most needed. When installing benches, thoughtful consideration of their orientation is crucial. They should be positioned as to not impede pedestrian circulation as well as to encourage social interaction. Proper placement allows benches to serve not just as resting spots, but also as social hubs that contribute to the vibrant campus life.

The Scarborough bench is identified as a preferred option for campus seating. Its durability makes it a practical choice, while its design is versatile enough to complement both the historic and contemporary areas of the campus. Alternative options can be considered when appropriate, such as built-in benches or even stone plinths.

H

C

Product: Scarborough Bench.

Dimensions: 72" or 96" lengths

Style: Backed, Horizontal slats

Finish / Material: Gloss Black, Powdercoated Metal

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

<u>Sustainability:</u>
- Made of 100% recyclable materials:
    - Cast aluminum
    - Stainless steel
    - Carbon steel
    - Cast bronze
- Lead-free Pangard II polyester powdercoat.
- LEED Credits:
    - MRc4, Recycled Content
    - MRc5, Regional Materials

Existing Site Bench Examples:

Stone plinth in West End Neighborhood

Memorial Bench

Scarborough at Kirkland Hall

Movable Dining Chair

Movable chairs are integral to the versatility of outdoor gathering spaces at Vanderbilt University. Their flexibility enables users to tailor the arrangement to their specific needs, enhancing the functionality of these areas. Durability is a key criterion for all movable furniture on campus.

The Park Centre chair, predominantly used across the campus, is notable for its durable construction and design that suits both historic and contemporary settings. As the campus evolves, incorporating more modern architectural styles, the Chair 21 has also been identified as a fitting choice. Already present in various outdoor locations, its contemporary design complements the newer buildings while maintaining the required robustness.

H

C

Product: Park Centre

Dimensions:
21" x 22" 33" (armed)
21" x 19" x 33" (armless)

Style: Backed, Horizontal slats

Finish / Material: Gloss Black, Powdercoated Metal

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

Sustainability:
- Made of 100% recyclable materials:
    - Cast aluminum
    - Stainless steel
    - Carbon steel
    - Cast bronze
- Lead-free Pangard II polyester powdercoat.
- LEED Credits:
    - MRc4, Recycled Content
    - MRc5, Regional Materials

C

Product: Chair 21

Dimensions: 25.5” x 25.75” x 32.75”

Finish / Material: Silver Metallic

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

Sustainability:
- Made of 100% recyclable materials:
    - Cast aluminum
    - Stainless steel
    - Carbon steel
    - Cast bronze
- Lead-free Pangard
II polyester powdercoat.
- LEED Credits:
    - MRc4, Recycled Content
    - MRc5, Regional Materials

Product: Chipman Chair with Arm Rest

Dimensions: 22” x 24” x 33”

Finish / Material: Silver Metallic

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

Lounge Chair

Lounge chairs on Vanderbilt University's campus offer a distinct and relaxing seating option in public spaces, differing from the more conventional movable chairs often used in dining and table-centric activities. These chairs are particularly favored by students for their use in lawn areas, providing a comfortable setting for relaxation and casual socializing. Their presence contributes to a laid-back and inviting atmosphere in the campus's public areas, enhancing the overall outdoor experience.

While lounge chairs are generally larger and heavier than standard movable chairs, they still offer a degree of flexibility. They can be repositioned to suit various social arrangements, accommodating different group sizes and interaction styles. This adaptability makes them a valuable addition to the campus's outdoor furniture collection.

H

C

Product: Adirondack Chair

Dimensions: 34.75" L x 28.5" W x 33.25" H

Style: Flat

Finish / Material: Charcoal Gray

Manufacturer:
Loll Designs
470-430-9325
www.lolldesigns.com

Movable Table

Movable tables on campus are designed to complement the movable chairs, ensuring consistency in character and style. These tables create versatile spaces for dining, studying, and various other activities that require a table surface. Their presence enhances the functionality of outdoor areas, providing the campus community with flexible options for engagement and productivity.

Rectangular tables are the preferred choice on campus due to their inherent flexibility. They are particularly suited for creating extended community table arrangements, which have become popular in various outdoor settings. This shape allows for easy configuration and reconfiguration, accommodating different group sizes and facilitating both individual and collaborative activities.

The selection and placement of these tables are carefully considered to ensure they align with the aesthetic of the chairs and the overall campus environment.

H

C

Product: Chipman Square

Dimensions: 37” square

Finish / Material: Silver

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

Sustainability:
- Made of 100% recyclable materials:
    - Cast aluminum
    - Stainless steel
    - Carbon steel
    - Cast bronze
- Lead-free Pangard II polyester powdercoat.
- LEED Credits:
    - MRc4, Recycled Content
    - MRc5, Regional Materials

Waste Receptacle

Effective coordination of waste receptacles with campus operations and maintenance is crucial. For conventional waste and recycling collection, the Chase Park Litter receptacle has been selected as the preferred option. Its design and functionality align well with the campus's waste management needs. Each location should feature two receptacles positioned on a concrete base, clearly differentiated: one for waste and the other for recycling.

In areas of high pedestrian traffic, the Big Belly receptacle is the desired choice, offering increased capacity to accommodate the larger volume of waste and recyclables.

For areas where recycling is implemented, all receptacles must be clearly marked with signs made from durable materials. The use of stickers or any other materials that lack long-term durability is not allowed.

H

C

Product: Chase Park Litter

Dimensions: 24" x 39" x 40 gal.

Style: Side opening / signage

Color: Black

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

Sustainability:
- Made of 100% recyclable materials:
    - Cast aluminum
    - Stainless steel
    - Carbon steel
    - Cast bronze
- Lead-free Pangard II polyester powdercoat.
- LEED Credits:
    - MRc4, Recycled Content
    - MRc5, Regional Materials

C

Product: Bigbelly Element

Dimensions: 49.8” x 25” x 26.8” (50 gal)

Color: Black

Alternate: Gold VU Logo with black background.

Manufacturer:
Bigbelly
+1-888-820-0300
www.bigbelly.com

Bike Rack

Bike racks on campus are strategically positioned to promote cycling as a viable mobility option. Their placement is aimed at providing students and campus visitors with convenient locations to securely park their bicycles. This initiative is part of the university's broader efforts to encourage sustainable and healthy transportation choices.

When installing bike racks, it's essential to ensure that each parking space offers a minimum area of 7 feet by 1.5 feet for bicycles. This size standard is designed to accommodate a range of bicycle types while providing ample space for users to park and secure their bikes easily.

H

C

Product: Bola

Dimensions: 1.5" x 28" x 32"

Finish / Material: Black / Stainless Steel

Manufacturer:
Landscape Forms
269-337-1312
www.landscapeforms.com

Note: An escucheon will need to be provided at the base of the bike racks to cover the anchoring to the pavement.

Sustainability:
- Made of 100% recyclable materials:
    - Cast aluminum
    - Stainless steel
    - Carbon steel
    - Cast bronze
- Lead-free Pangard II polyester powdercoat.
- LEED Credits:
    - MRc4, Recycled Content
    - MRc5, Regional Materials

Bollards

Bollards serve a critical function in managing campus safety by controlling vehicular access to pedestrian areas. They are strategically placed to ensure a clear demarcation between vehicle routes and pedestrian zones.

In locations where vehicular or emergency access must be occasionally permitted, operable bollards are the recommended solution. These bollards provide the necessary flexibility, allowing access when needed while maintaining control over vehicle movement in primarily pedestrian areas. For emergency access scenarios, particularly where manually operated bollards are installed, a Knox box is required at each location. This box securely stores the keys needed to unlock the bollards, ensuring that emergency personnel have immediate access during critical situations.

H

C

Manual Fold Down Bollard

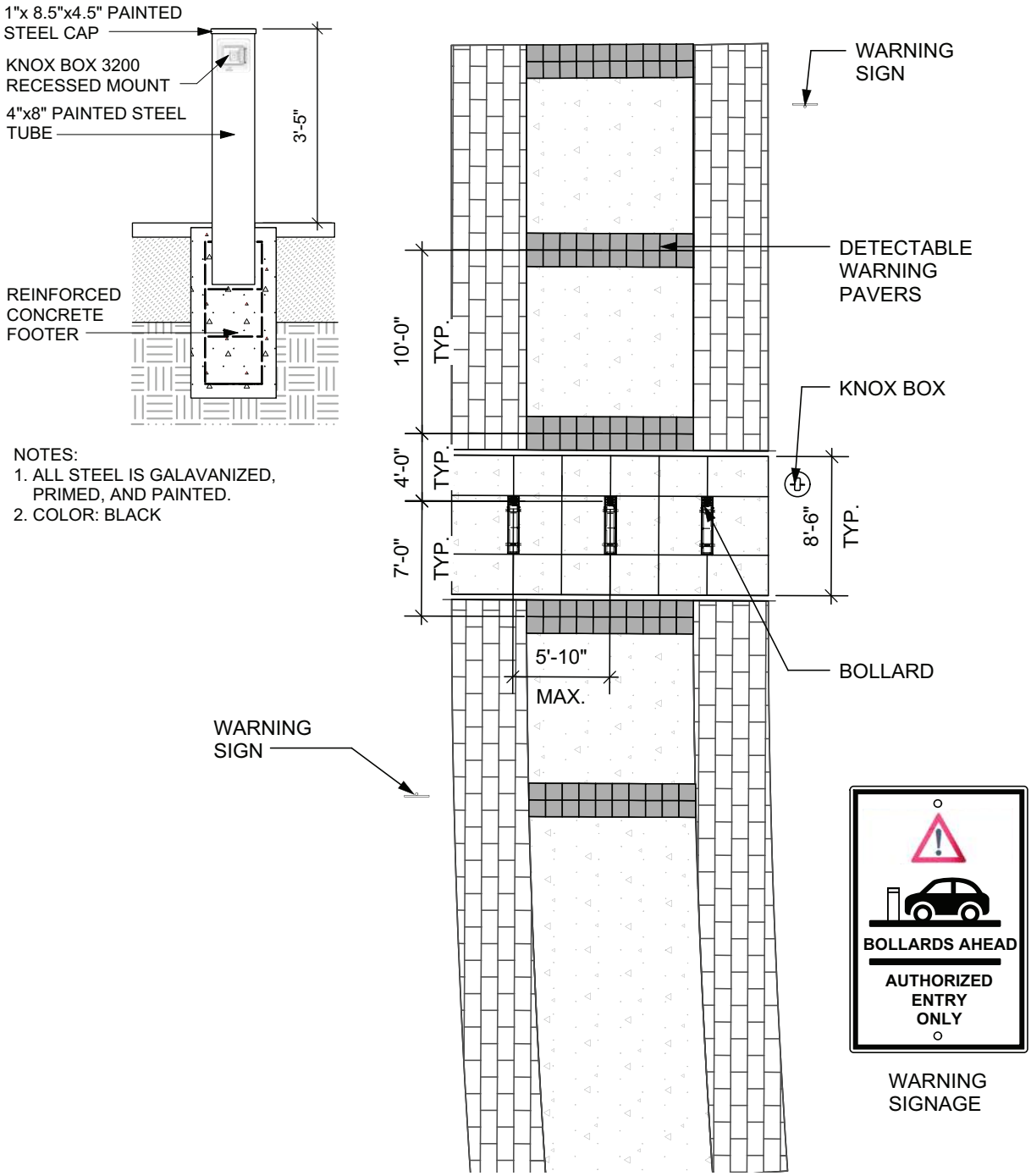
Product: Coffin Bollard

Dimensions: 36” ht., 4” dia.

Color: Black

Manufacturer:
Kent Stainless
781-374-7391
www.kentstainless.com

Operable lay down bollard layout diagram:



H
C

Product: Fixed Two-tone Bollard

Dimensions: 36” ht. , 4” dia.

Product #: KLB101
Finish: Black polyester powdercoat

Manufacturer:
Kent Stainless
781-374-7391
www.kentstainless.com

H
C

Product: Stone Boulder

Color: Natural stone

Supplier: Local vendor

Notes:

1. Bollards can be used as an alternative traffic control feature to enahance the campus’s visual appeal while maintaining functionality.

2. Boulders should be placed to blend into the landscape and context of the site.

Trench Grate

Trench grates and inlet grates play an essential role in managing drainage while also contributing to the overall aesthetic. It is important that these grates are designed to aesthetically complement the campus character, blending seamlessly into the landscape and architectural style of the university.

The drain capacity of these grates should be determined by a civil engineer to ensure optimal functionality and efficiency in water management. Additionally, all grates must be heel proof to guarantee pedestrian safety and accessibility.

To maintain a cohesive look, all pavement adjoining the grates must be flush with their surface. In areas where pavers are used, it's crucial that no concrete is visible around the drain. To achieve this, a metal frame should be employed around the grate.

H

C

Product: P6-DDD
(ADA, Heel-Proof Pedestrian)

Dimensions: 6" x 20"

Finish / Material: Ductile Iron

Manufacturer:
Zurn
1-855-663-9876
www.zurn.com

H

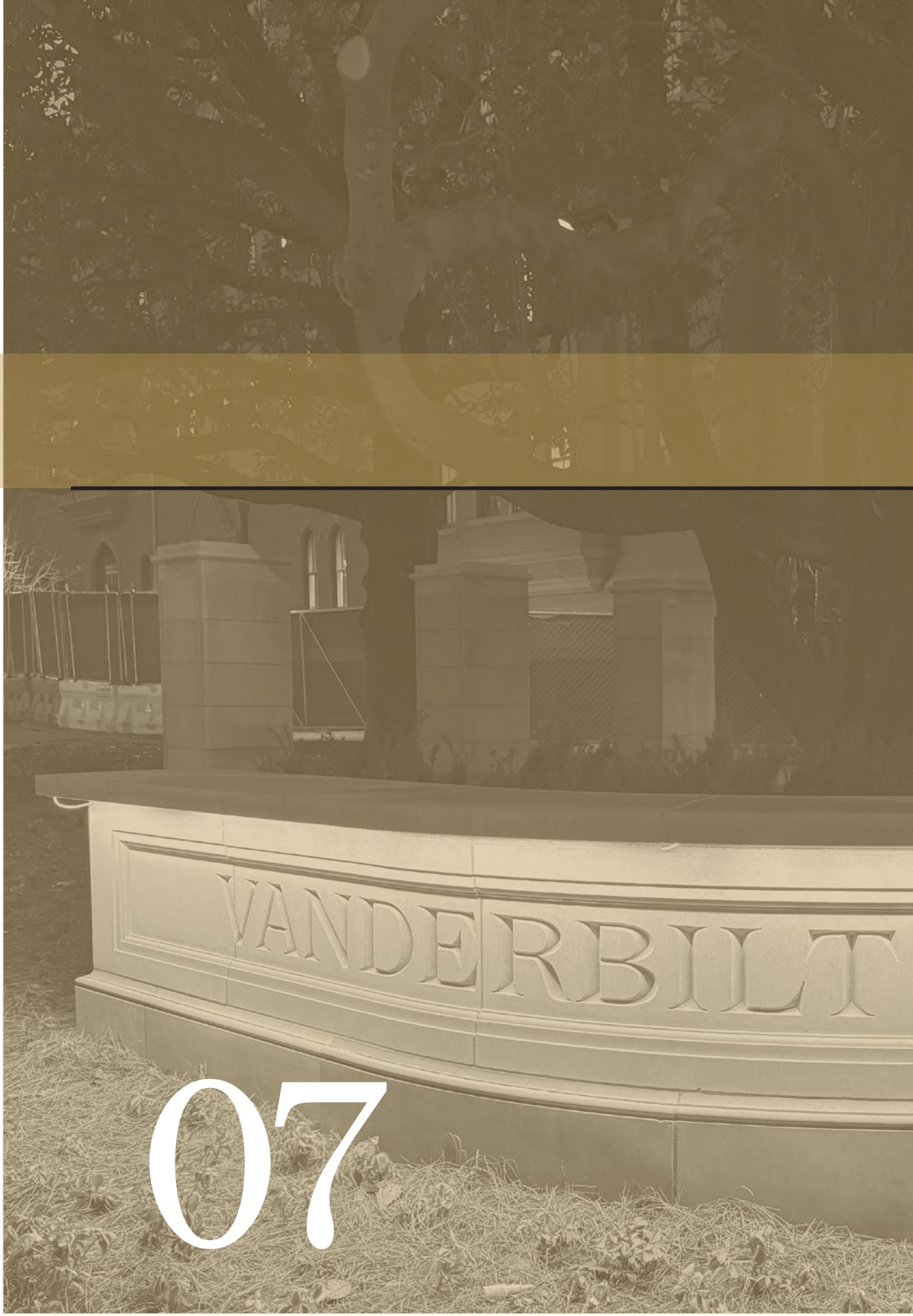
C

Product: JAMISON

Dimensions: 6” x 18”

Finish / Material: Silicon Bronze, Raw

Manufacturer:
Urban Accessories
1-877-487-0488
www.urbanaccessories.com



07

SITE LIGHTING

Site lighting plays a pivotal role in the overall landscape on campus. It's not only essentialfor campus safety but also crucial in enhancing its aesthetic character. All lighting fixtures must align with Metro Nashville's dark sky requirements, ensuring that while they provide adequate illumination for comfort and security, they also minimize light pollution.

The university has set a clear standard for lighting levels to ensure safety and visibility (refer to Vanderbilt Landscape Strategic Plan). A minimum of 0.2 foot-candles is required for sidewalks, plazas, and drives with a desired minimum of 0.5fc. The max to min ration should not exceed 20:1 and the average footcandles level is 1.5. This standard ensures that all areas of the campus are well-lit, promoting a sense of security and ease for all who traverse the grounds.

In every aspect of its lighting design, the university prioritizes creating a safe and comfortable atmosphere. The chosen color temperature of 3000 Kelvin offers a warm and inviting light, contributing to a pleasant campus environment during the evening hours.

Furthermore, in line with Vanderbilt University's commitment to sustainability, all lighting fixtures are to utilize energy-efficient LED technology. This approach not only supports the university's environmental goals but also ensures long-term efficiency and reduced operational costs.

Pole Lights

Light poles play a pivotal role in Vanderbilt University's approach to campus illumination, serving as the predominant strategy for outdoor lighting. The materials chosen for the light poles are selected for their durability and longevity. Each pole should include an escutcheon clamshell base to conceal mounting hardware. The aesthetic impact is further considered in the finish of the concrete bases, which is meticulously chosen to complement and elevate the surrounding landscape.

Additionally, the integration of secured power sources in the light pole bases is considered for campus events and activities. To maintain a streamlined appearance, attachments like WiFi, security cameras, or other utilities on light poles shoud be minimized and are only allowed subject to the University Landscape Architect's approval.

H

Product:

Fixture - Utility Arlington FCO LED 2
Lens - Special Fosted Lens GS-272
Pole - Charleston Aluminum Pole

Dimensions: 12' ht. poles

Finish: Bronze
Fixture - Holophane Bronze, Spike Finial
Pole - Aluminum, Fluted F5J Shaft

Manufacturer:

Holophane
1-855-898-8038
www.holophane.acuitybrands.com

C

Product:

Fixture - Ouro LED 3000k
Pole - DS340 Round, non-tapered steel post

Dimensions: 16’ ht. poles

Color: Graphite, Pole to Match

Manufacturers:

Light fixture -
KIM Lighting
864-678-1000
www.currentlighting.com

Pole -
Valmont
+1-402-359-2201
www.valmontstructures.com

C

Product:

Light fixture - 99 401
Pole - Valmont DS340,
Round non-tapered steel post

Dimensions: 12’ ht. poles

Color: Graphite, Pole to Match

Manufacturers:
Light fixture -
BEGA
(805)-684-0533
www.bega-us.com

Pole -
Valmont
+1-402-359-2201
www.valmontstructures.com

H

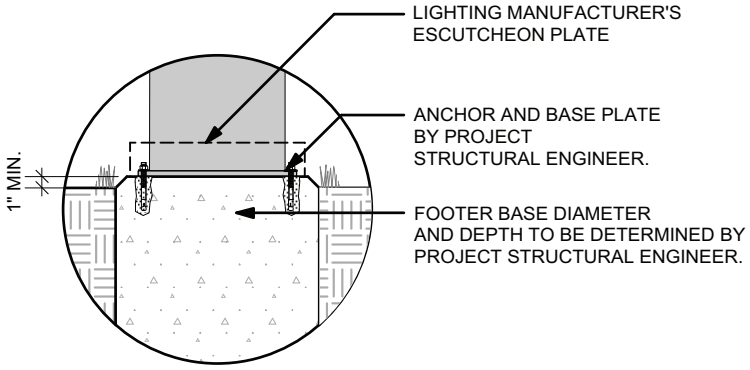
C

Base:

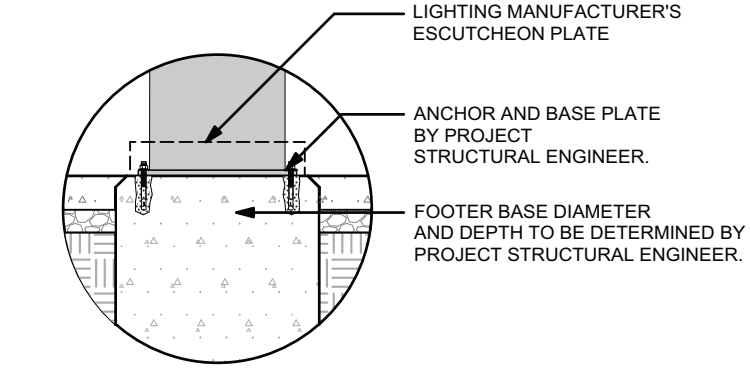
The light pole bases are intended to be flush with hardscape paving or are to sit 1 in. above topsoil in landscape areas.

The detail below is provided for guidance and reference. All footer reinforcement as well as light pole anchoring must be reviewed and approved by the project structural engineer.

BASE DETAIL:



A. FOOTER AT LANDSCAPE



B. FOOTER AT HARDSCAPE

Misc. Lights

Pole lighting serves as the primary lighting type on Vanderbilt University's campus, favored for its efficiency and the uniformity it brings to the campus aesthetic. Pole lighting is predominantly used to illuminate pedestrian walkways and vehicular pathways. However, there are instances where pole lighting alone may not suffice or may not be the most appropriate solution. Unique campus areas, specific architectural elements, or special usage demands can require a different lighting approach to achieve the desired effect and illumination levels.

In response to these varied requirements, the university has carefully selected an assortment of miscellaneous lighting fixtures. This diverse collection is intended to address any special lighting scenarios that might arise on campus. Each fixture in this selection is chosen for its ability to meet unique lighting challenges, all while harmoniously blending with the primary pole lighting and the overall campus aesthetic.

H

C

Bollard Light

Product: PSY424 LED

Dimensions: 39.4" Tall

Color: Dark Bronze

Manufacturer:
we-ef
724-742-0030
www.we-ef.com

Notes:

1. In places where vehicualr traffic is anticipated, bollard lights should be placed in protected areas by a curb to reduce potential damage to bollards.
2. Bollard lights should be avoided whenever possible and only used in rare circumstances where light poles or other lighting strategies cannot be used.

H
C

Tree Light

Product: ZXL16, C-HOOD

Dimensions: 3.40” Tall x 6.62”

Color: Aluminum, Black Powder Coat

Manufacturer:
HK USA Lighitng Group
805-480-4881
www.hklightinggroup.com

Notes:

1. Screw mounting is the preferred mounting method. Straps should never be used unless approved by the university landscape architect.
2. Lights should be shielded and to prevent glare and uplighting.
3. Articulated base to be used to facilitate aiming of fixture.

H
C

Wall Light

Product: STI134 LED
Recessed Wall Luminares

Dimensions: 2.55” Tall x 10.63”

Color: Bronze
Manufacturer:
we-ef
724-742-0030
www.we-ef.com

Notes:

1. For steps lights mounted into cheek wall are preferred over lights within the riser of the steps.

H

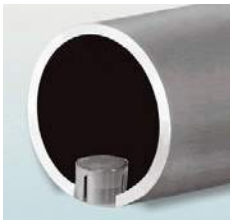
C

Handrail Light

Product: LR5 Series LED Puck Light

Color: N/A

Manufacturer:
Cole Lighting
626-443-2473
https://www.colelighting.com



1. Wiring for light to be within the handrail tube and not visible.
2. Provide spacing for puck light to maintain desired photometrics.
3. Puck light to be used in conjuction with handrail in handrail section of this document.

VANDERBILT
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https://www.vanderbilt.edu