CITY OF RALEIGH PLANNING AND DEVELOPMENT DEPARTMENT

Fayetteville Street
Streetscape Plan



N★C

Raleigh

McAdams

swa



Fayetteville Street 1951 - Raleigh N&O

Fayetteville Street
Overview

Anchored by the North Carolina State Capitol and the Performing Arts Center, Fayetteville Street has long been downtown Raleigh's cultural and economic heart. The historic thoroughfare has undergone numerous redesigns over the years–the latest one being nearly twenty years ago–that have led to changes to the streetscape.

Today, the street has many assets, including healthy and mature trees, a highly programmed and activated City Plaza, high-quality materials, and a dynamic mix of uses fronting it. The Fayetteville Streetscape Plan builds off the existing structure to allow the street to live up to its full potential as a 21st-century public space.


GEORGE WASHINGTON

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PNC

Streetscape Plan

Streetscape Plan

1.1 Introduction

1.1.1 Design Methodology

Fayetteville Street is Raleigh's civic promenade—a ceremonial spine that elevates everyday movement into shared ritual for residents, workers, and visitors. Framed by a clear sequence of spaces and activities, the street unfolds with rhythm and anticipation, guiding people from arrival to gathering. Subtle shifts in paving, planting, and lighting reinforce a sense of procession, while generous thresholds and pauses create places for celebration, reflection, and civic life to unfold. The result is a street that feels purposeful and dignified—an urban stage for the daily and the momentous in the heart of Raleigh, North Carolina.

The proposed improvements are the result of extensive community and stakeholder engagement that considered multiple design options for the streetscape and City Plaza, as well as "test fits" for the streetscape, intersections, and midblock crossings (Chapter 7: Appendices).

This Streetscape Plan introduces a comprehensive three-pronged strategy—Subtract, Add, and Refresh—designed to elevate Fayetteville Street into a premier, activated public space.

- **Subtract:** Prioritizes the removal of physical barriers to maximize sidewalk flexibility, sidewalk dining, and pedestrian flow.
- **Add:** Enhances the public realm through the integration of public art, wayfinding, contemporary lighting, and curated street activations.
- **Refresh:** Upgrades essential infrastructure, including paving, site furnishings, and planting, to ensure a contemporary and cohesive aesthetic.

By streamlining the existing environment and introducing high-quality amenities, this framework will catalyze street-level activity and revitalize Fayetteville Street to a level of vibrancy not seen in decades.



Subtract

Remove barriers and obstacles that limit use such as planter walls, benches, news kiosks and urns.



Add

Introduce public art, wayfinding and signage, interactive public seating, and additional planting to enhance placemaking.



Refresh

Consider enhancements to existing elements such as pavement, plant material, lighting, and furnishings for a refreshed, contemporary aesthetic.



Proposed Streetscape Design - Block 200 Looking South



Proposed Streetscape Design - Block 100 Looking North

Streetscape Plan

1.1 Introduction

1.1.2 Design Concept: Procession and Celebration

The conceptual approach reinforces Fayetteville Street's role as a grand ceremonial boulevard established in the Christmas Plan for Raleigh, supporting organized processional activities such as parades and marches that enable cultural expression and bring diverse communities together in shared celebration.

The proposed streetscape design emphasizes this processional character by preserving the formal allée of oak trees and enhancing rhythm through coordinated paving patterns, lighting, and furnishings. Intersections are envisioned as distinctive plazas or "urban rooms" that mark arrival along the corridor, incorporating special paving, public art, and integrated wayfinding elements.

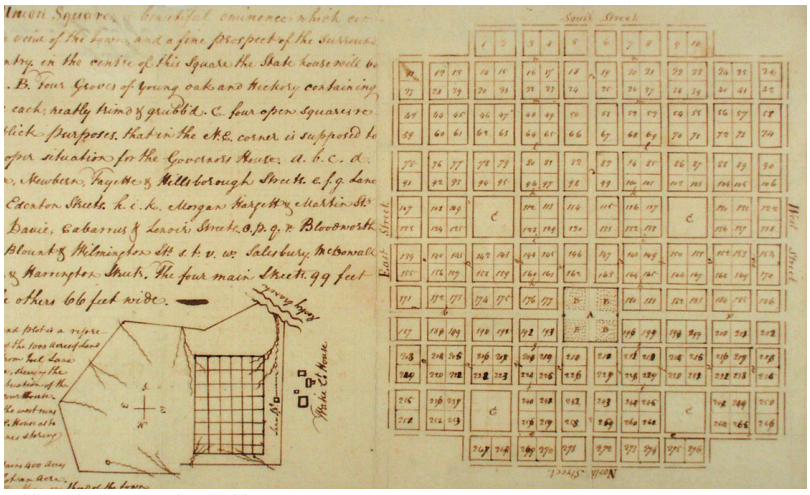
Overall, the design aims to activate the street on a daily basis by expanding opportunities for outdoor dining and introducing contemporary, engaging furnishings and programming. At the same time, it maintains the flexibility and capacity required to accommodate large crowds and major civic events.



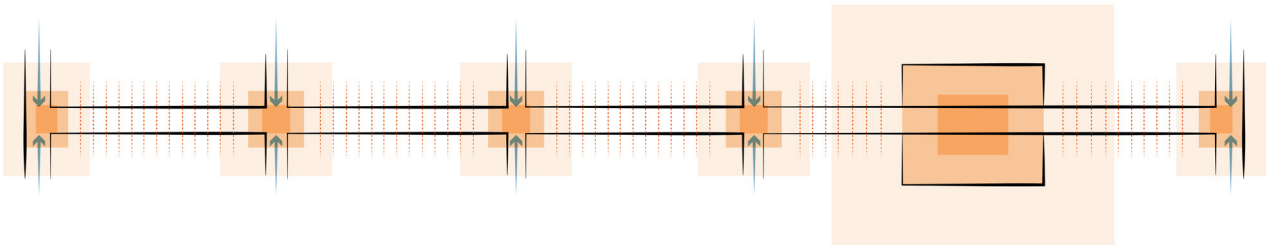
Staley Cup Championship Parade 2026, Alyson Boyner - VisitRaleigh



Fayetteville Street 1968 - Raleigh N&O



William Christmas Plan, 1792















Design Character Precedent Images

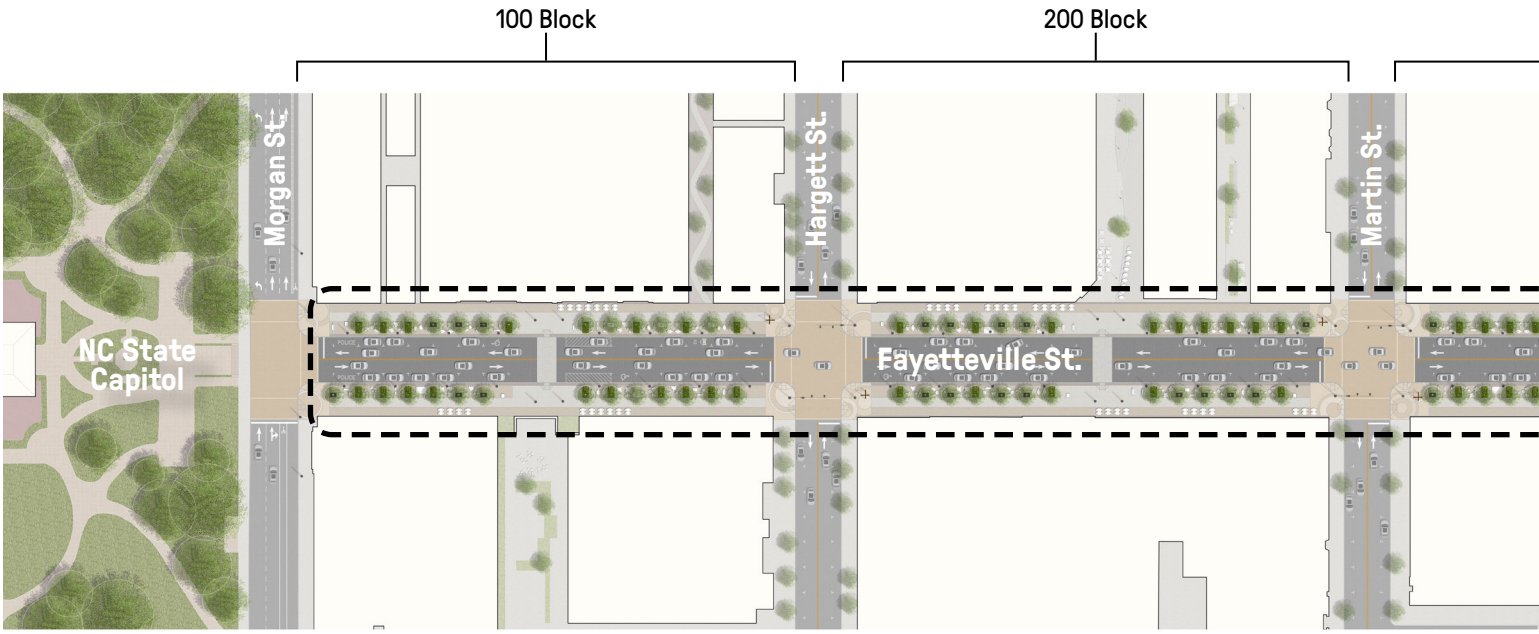
Streetscape Plan

1.2 Streetscape

1.2.1 Illustrative Site Plans

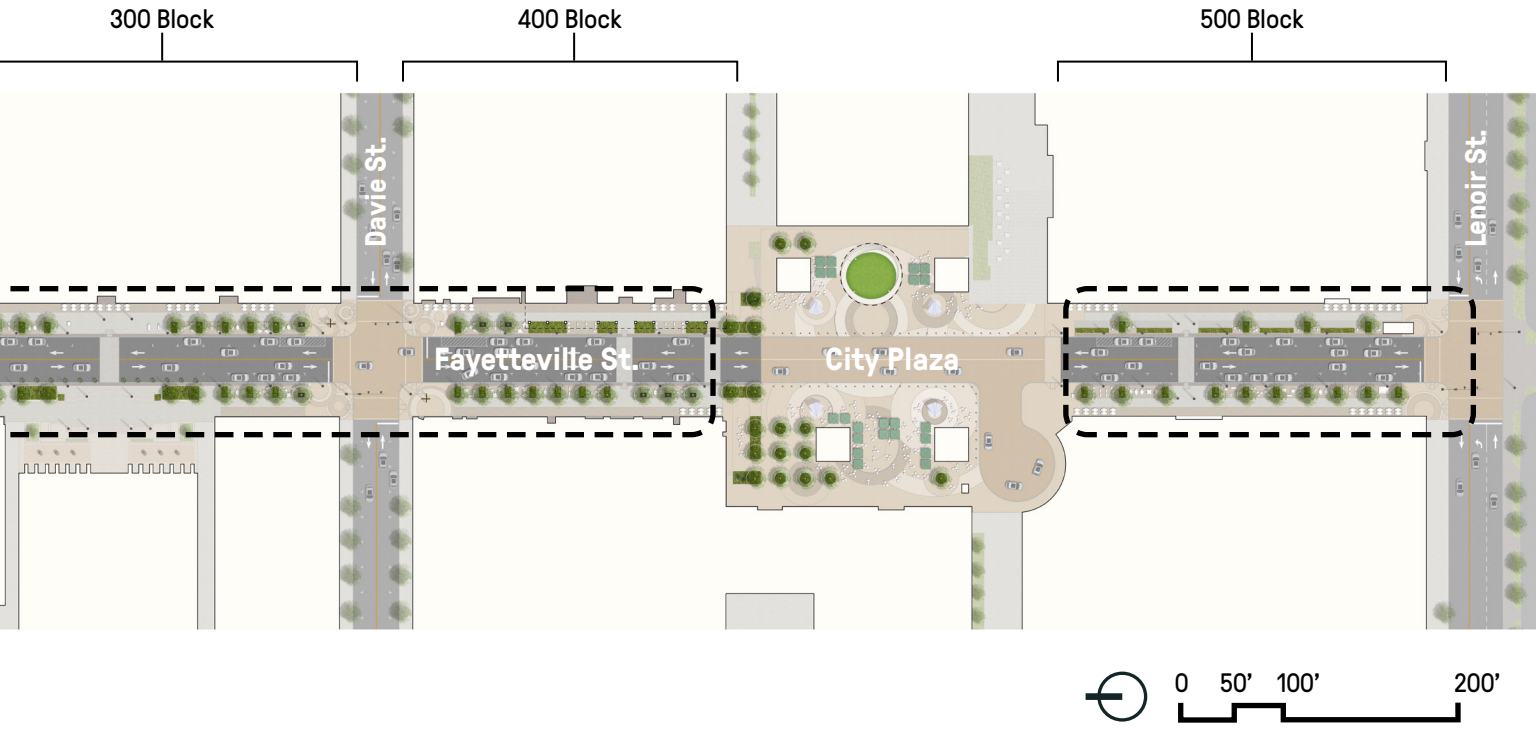
The map below shows the Fayetteville Street Streetscape Plan boundary. The Plan include the five blocks of Fayetteville Street between Morgan Street and Lenoir Street. City Plaza is not included in the recommendations of the document.

All existing public right-of-way and abutting properties to the right-of-way would be required to adhere to the recommended streetscape standards.



Streetscape Boundary

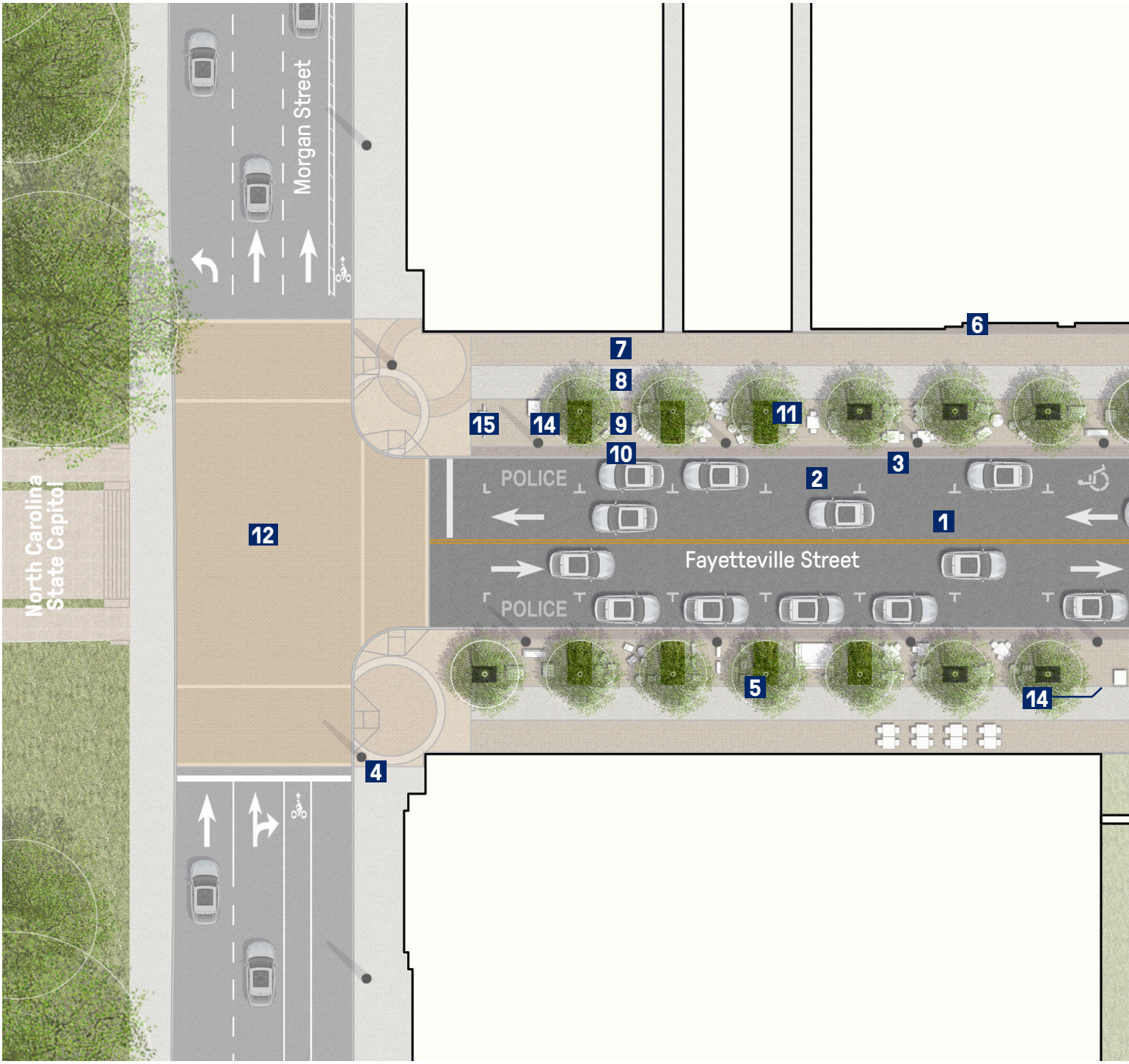
General Notes:
The Streetscape Plan does not make any recommendations or provide guidance for on-street parking or curb management along the corridor. Parking and loading zones shown on the Illustrative Site Plans show the general intent for where these functions could occur.


300 Block
400 Block
500 Block
Davie St.
Fayetteville St.
City Plaza
Lenoir St.
0
50’
100’
200’

Streetscape Plan

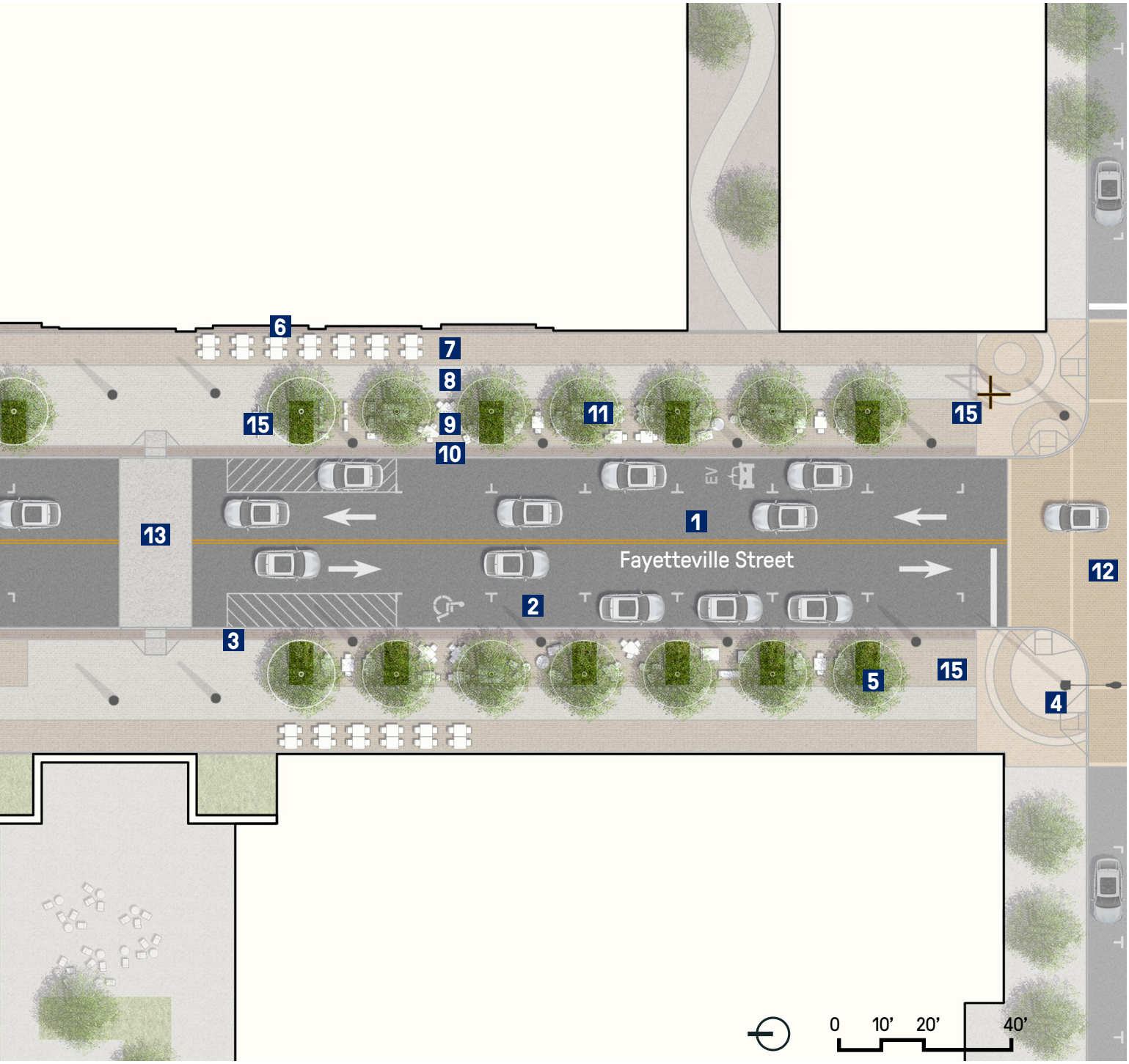
1.2 Streetscape

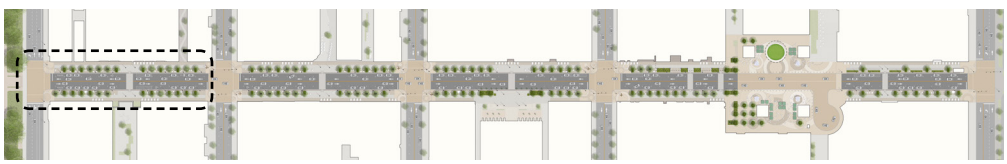
1.2.1 Illustrative Site Plans



100 Block Illustrative Site Plan

1 Existing Street Paving
2 Existing Parallel Parking
3 Existing Granite Curb
4 Existing Traffic Light
5 Existing Street Tree
6 Building Frontage Zone
7 Business Zone
8 Walking Zone
9 Activity Zone
10 Step-Off Zone
11 Reorganized Tree Well
12 Enhanced Intersection Paving
13 Enhanced Mid-Block Crossing
14 Refurbished Newspaper Kiosk
15 Wayfinding Element and Public Art Location


6
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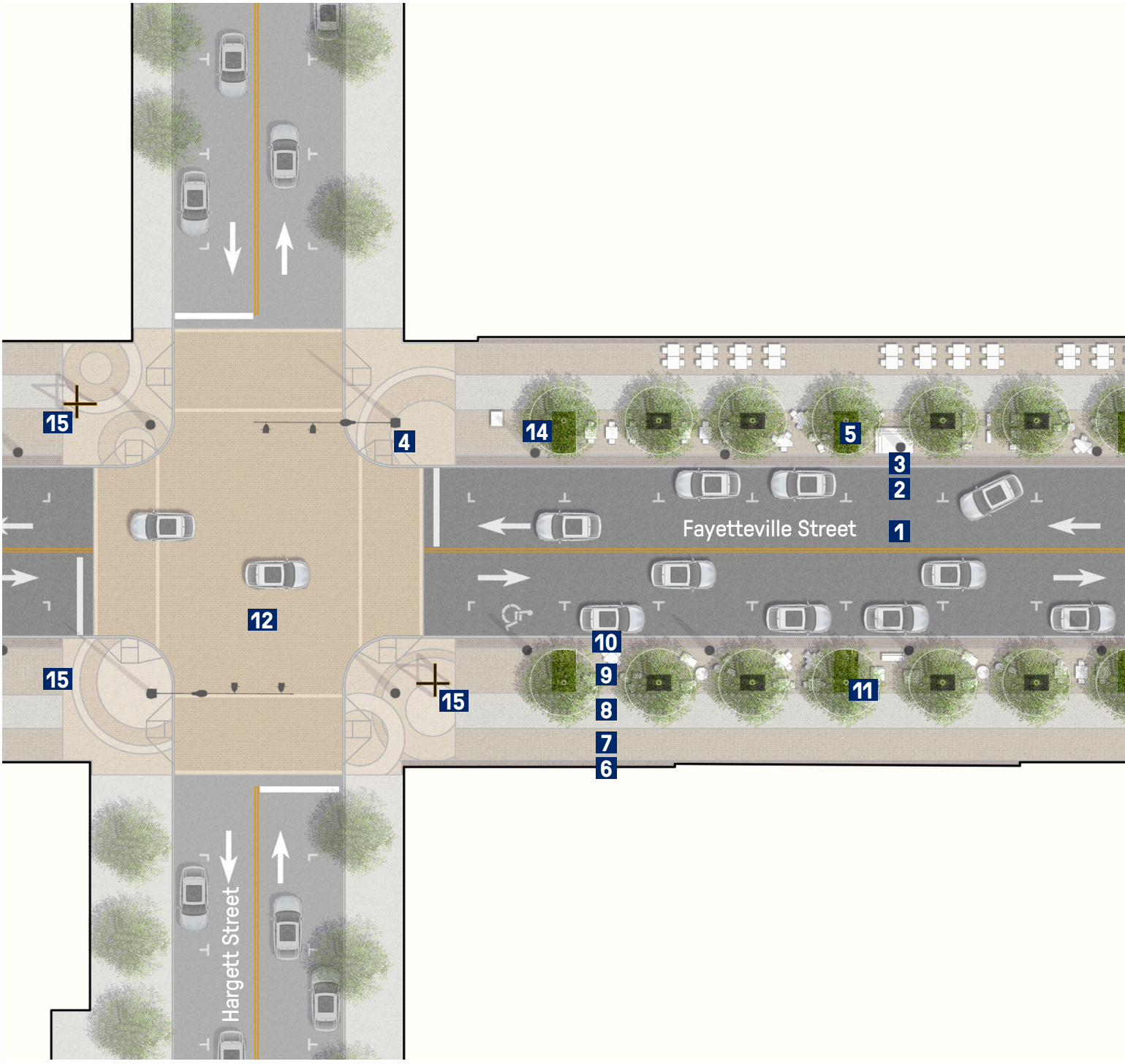


Key Plan

Streetscape Plan

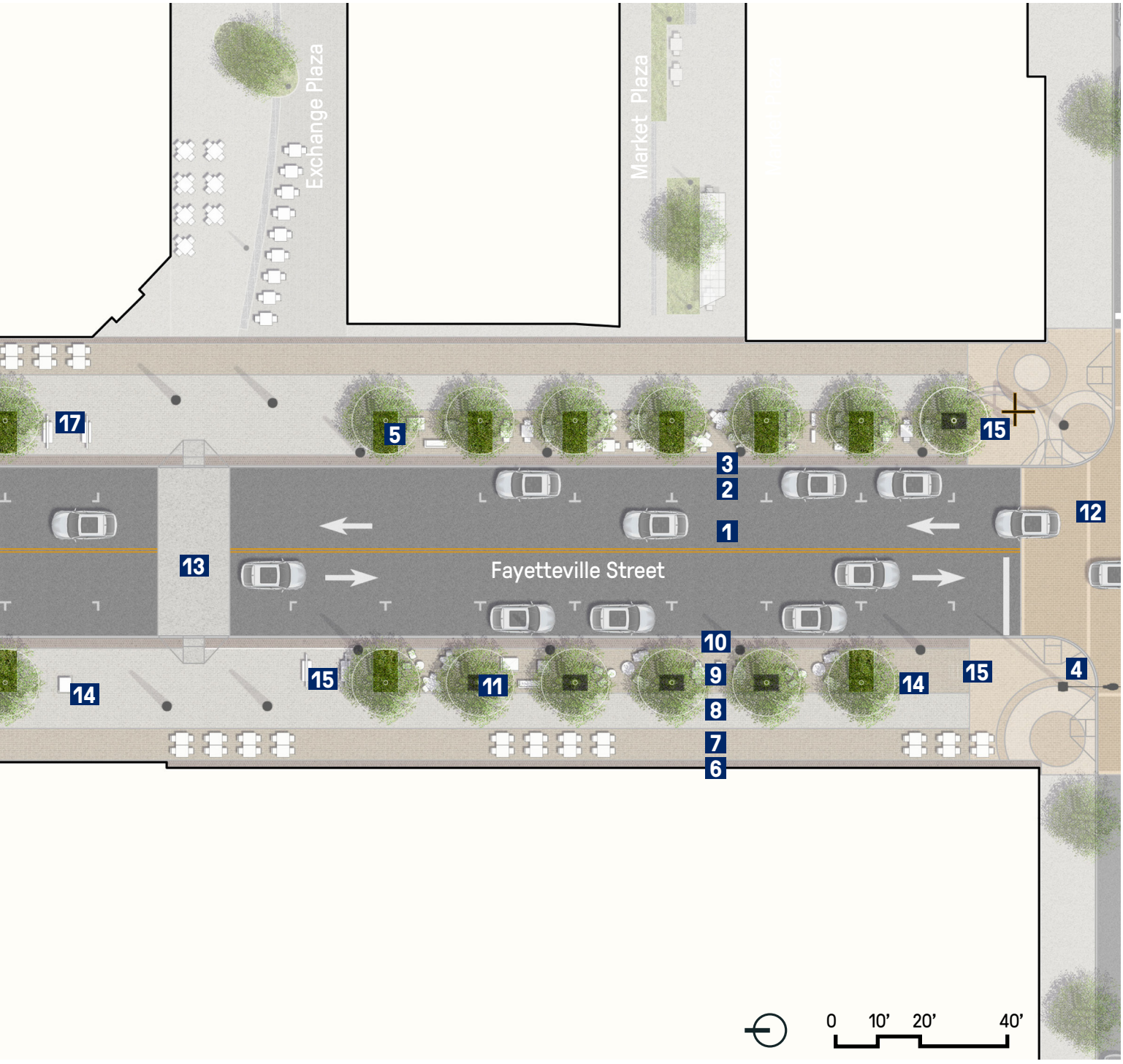
1.2 Streetscape

1.2.1 Illustrative Site Plans



200 Block Illustrative Site Plan

1	Existing Street Paving	6	Building Frontage Zone	11	Reorganized Tree Well
2	Existing Parallel Parking	7	Business Zone	12	Enhanced Intersection Paving
3	Existing Granite Curb	8	Walking Zone	13	Enhanced Mid-Block Crossing
4	Existing Traffic Light	9	Activity Zone	14	Refurbished Newspaper Kiosk
5	Existing Street Tree	10	Step-Off Zone	15	Wayfinding Element and Public Art Location


Exchange Plaza
Market Plaza
Fayetteville Street
17
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15
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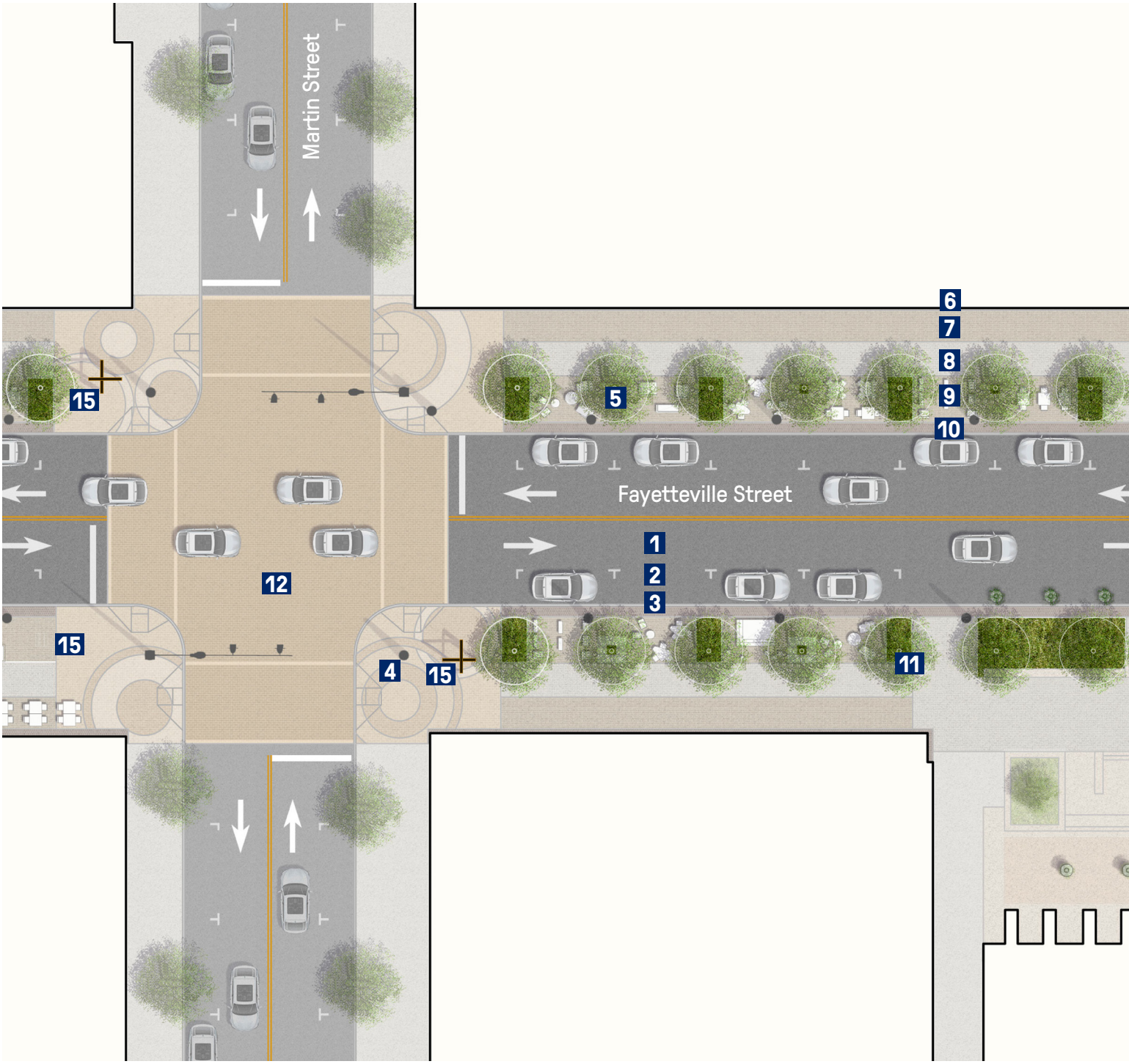


Key Plan

Streetscape Plan

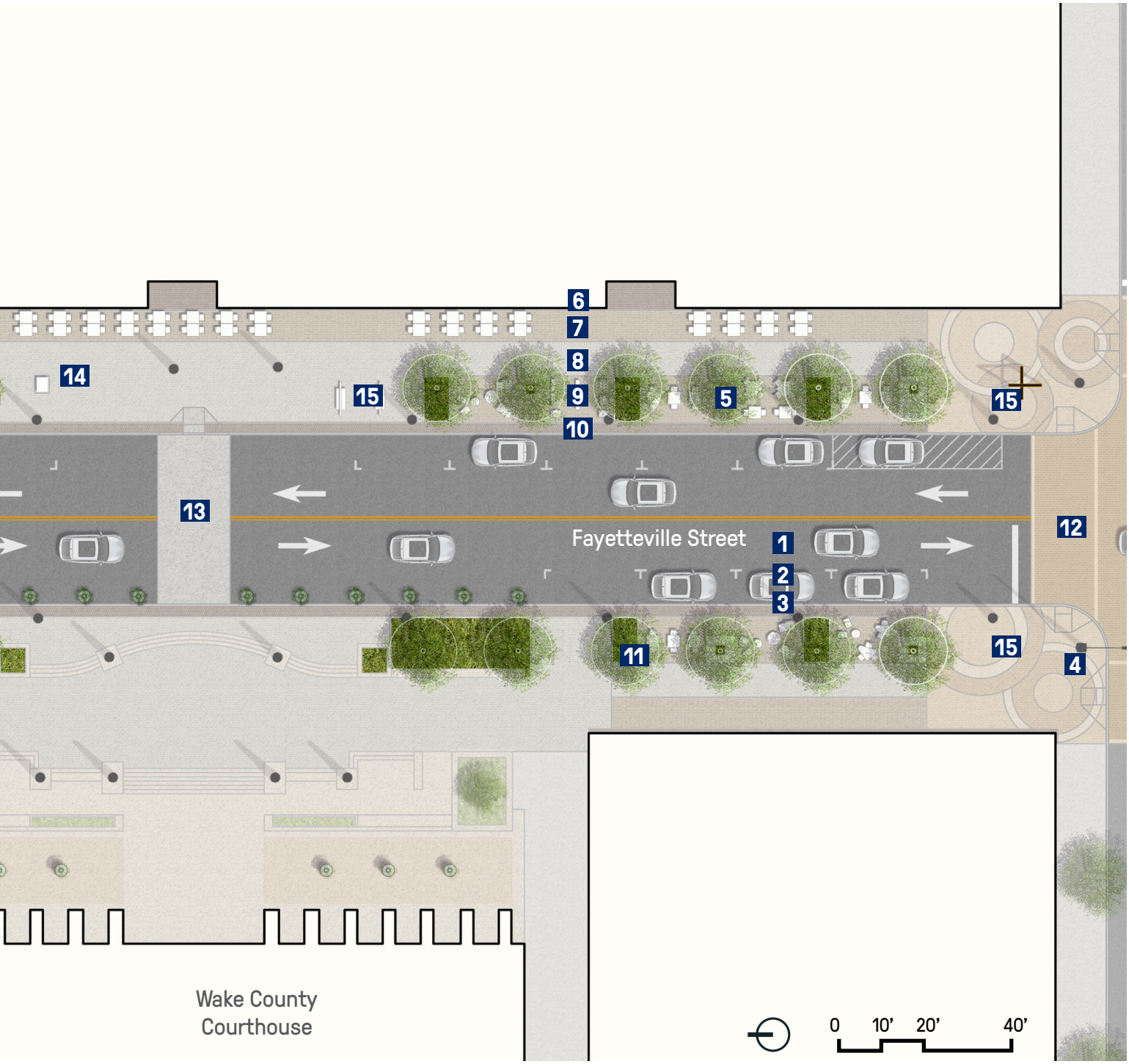
1.2 Streetscape

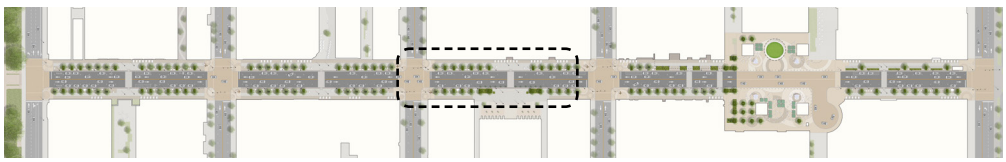
1.2.1 Illustrative Site Plans



300 Block Illustrative Site Plan

1 Existing Street Paving
2 Existing Parallel Parking
3 Existing Granite Curb
4 Existing Traffic Light
5 Existing Street Tree
6 Building Frontage Zone
7 Business Zone
8 Walking Zone
9 Activity Zone
10 Step-Off Zone
11 Reorganized Tree Well
12 Enhanced Intersection Paving
13 Enhanced Mid-Block Crossing
14 Refurbished Newspaper Kiosk
15 Wayfinding Element and Public Art Location


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Fayetteville Street
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Wake County
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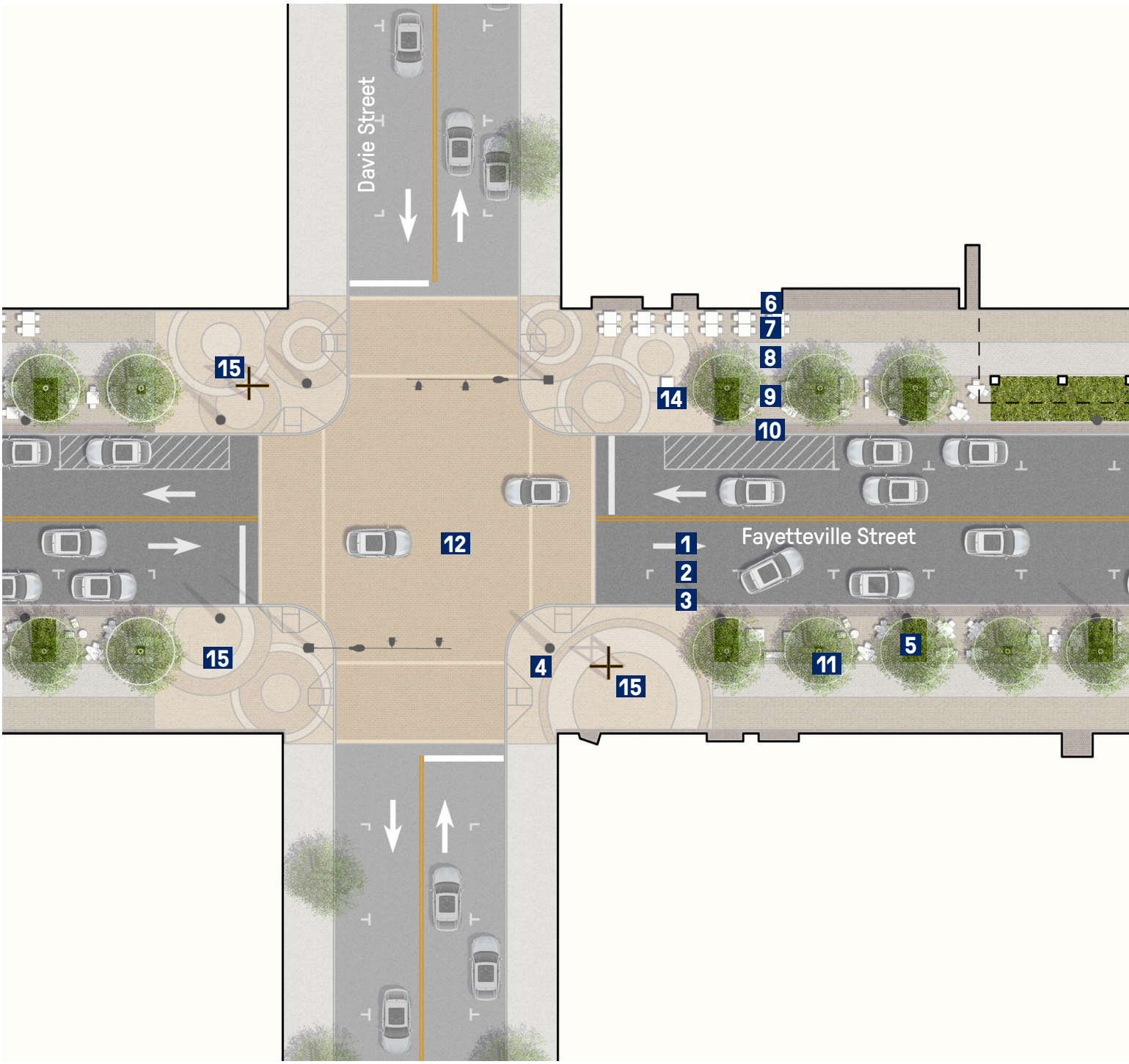


Key Plan

Streetscape Plan

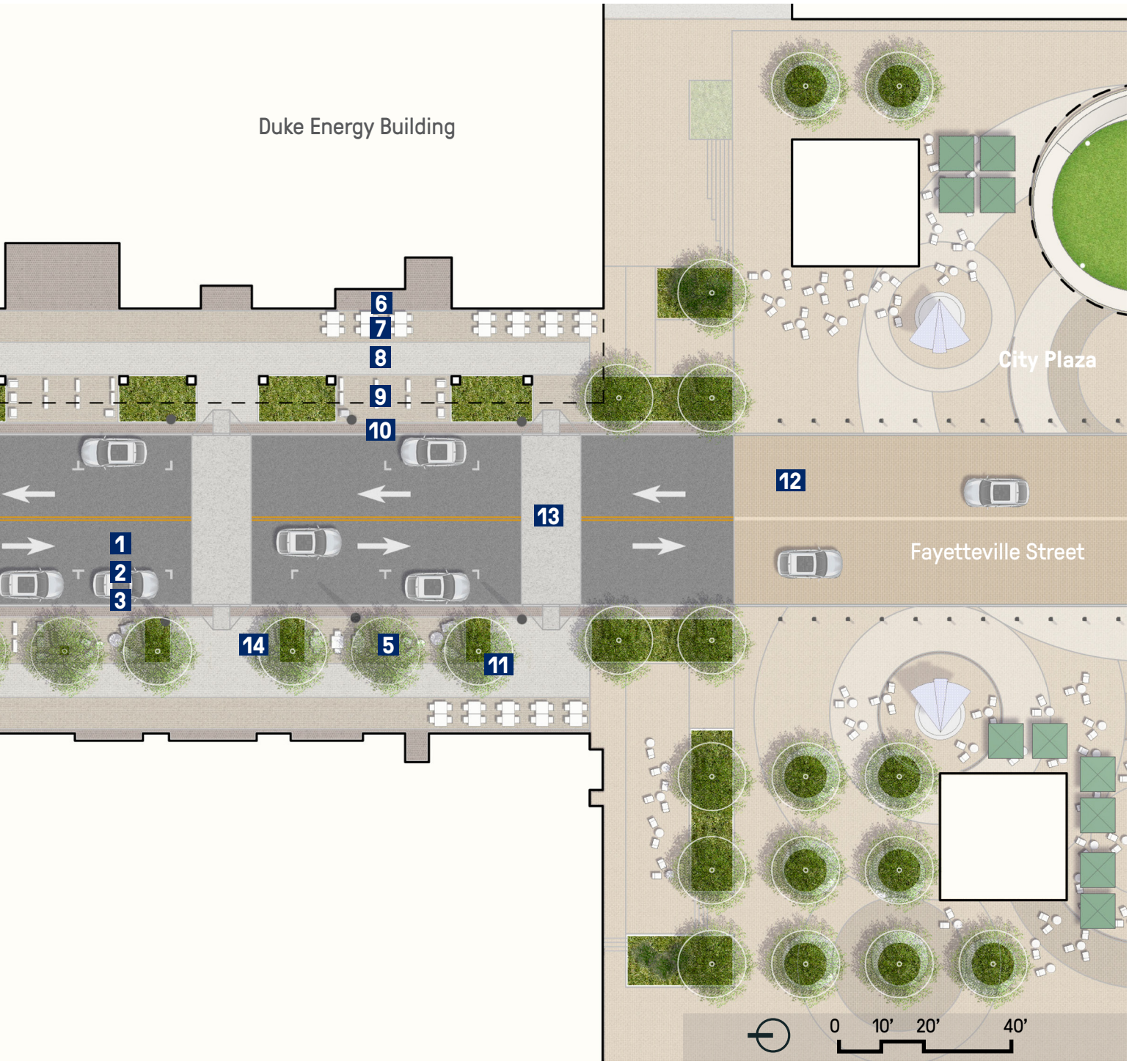
1.2 Streetscape

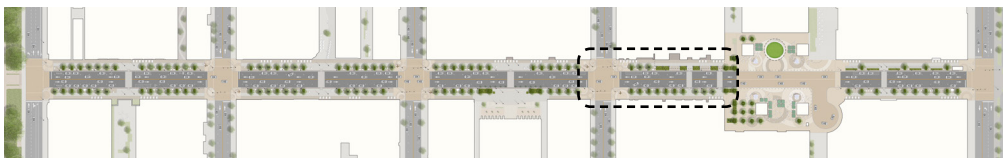
1.2.1 Illustrative Site Plans



400 Block Illustrative Site Plan

1	Existing Street Paving	6	Building Frontage Zone	11	Reorganized Tree Well
2	Existing Parallel Parking	7	Business Zone	12	Enhanced Intersection Paving
3	Existing Granite Curb	8	Walking Zone	13	Enhanced Mid-Block Crossing
4	Existing Traffic Light	9	Activity Zone	14	Refurbished Newspaper Kiosk
5	Existing Street Tree	10	Step-Off Zone	15	Wayfinding Element and Public Art Location


Duke Energy Building
City Plaza
Fayetteville Street
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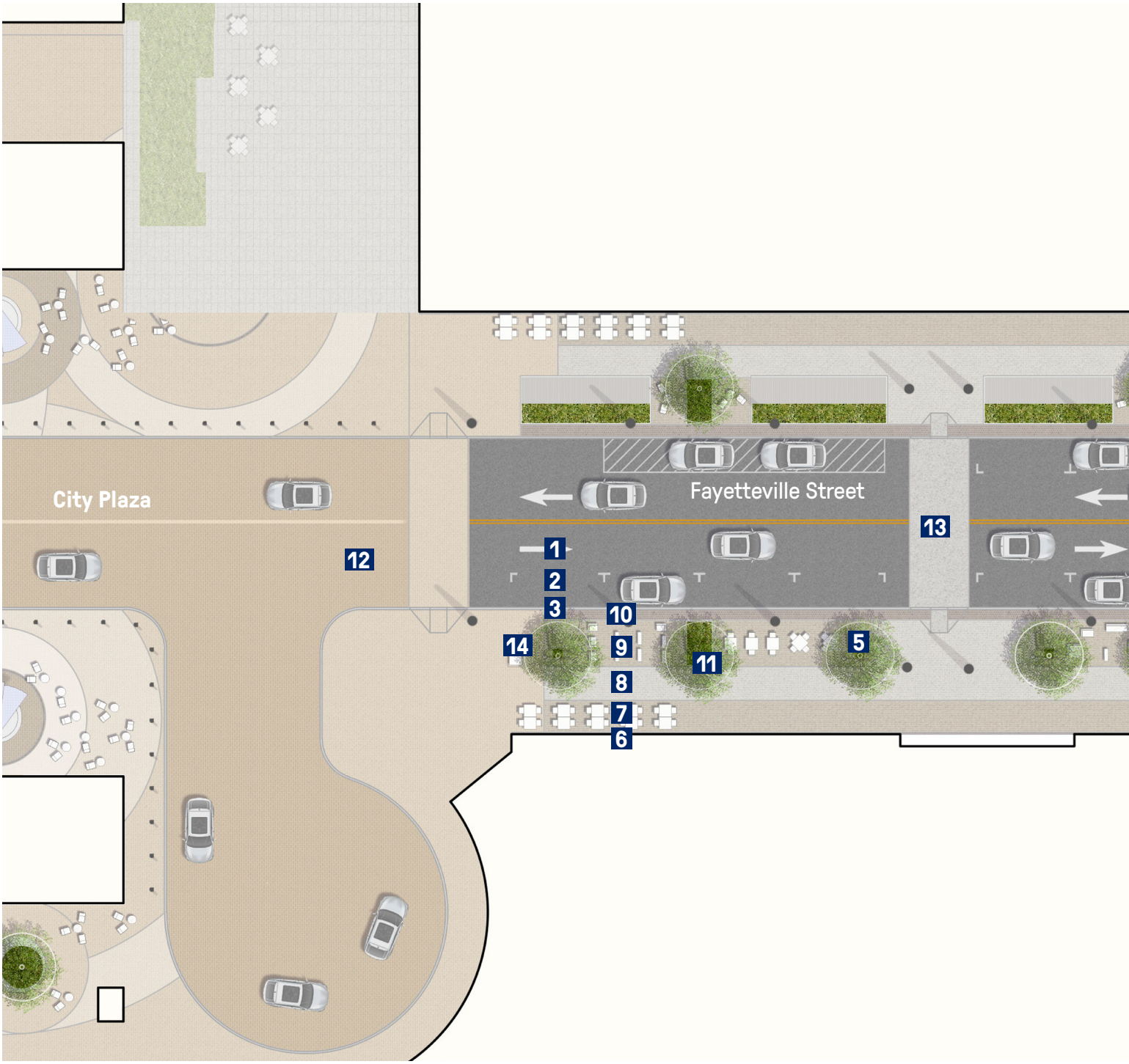


Key Plan

Streetscape Plan

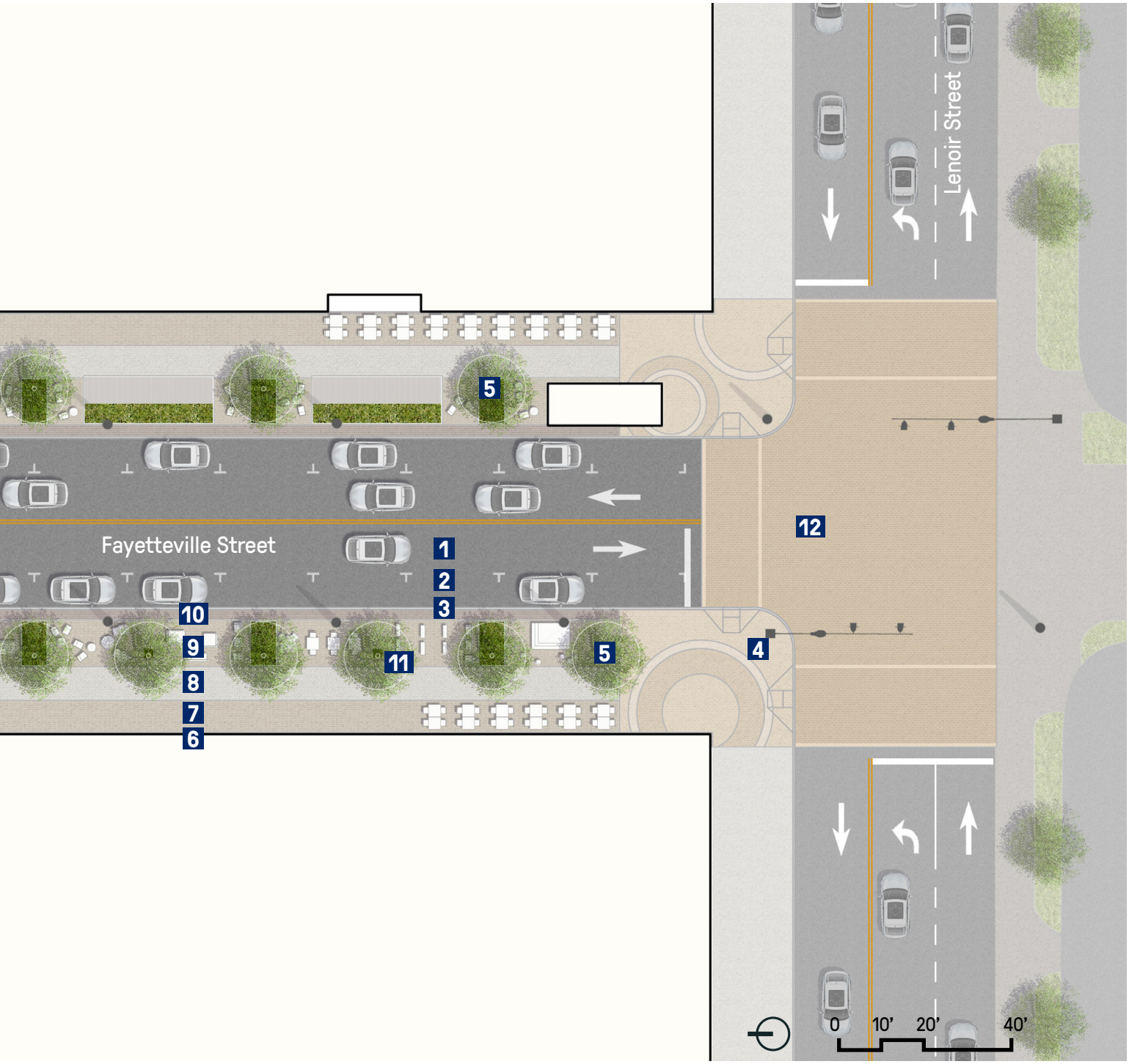
1.2 Streetscape

1.2.1 Illustrative Site Plans



500 Block Illustrative Site Plan

1	Existing Street Paving	6	Building Frontage Zone	11	Reorganized Tree Well
2	Existing Parallel Parking	7	Business Zone	12	Enhanced Intersection Paving
3	Existing Granite Curb	8	Walking Zone	13	Enhanced Mid-Block Crossing
4	Existing Traffic Light	9	Activity Zone	14	Refurbished Newspaper Kiosk
5	Existing Street Tree	10	Step-Off Zone	15	Wayfinding Element and Public Art Location


Lenoir Street
Fayetteville Street
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20’
40’



Key Plan

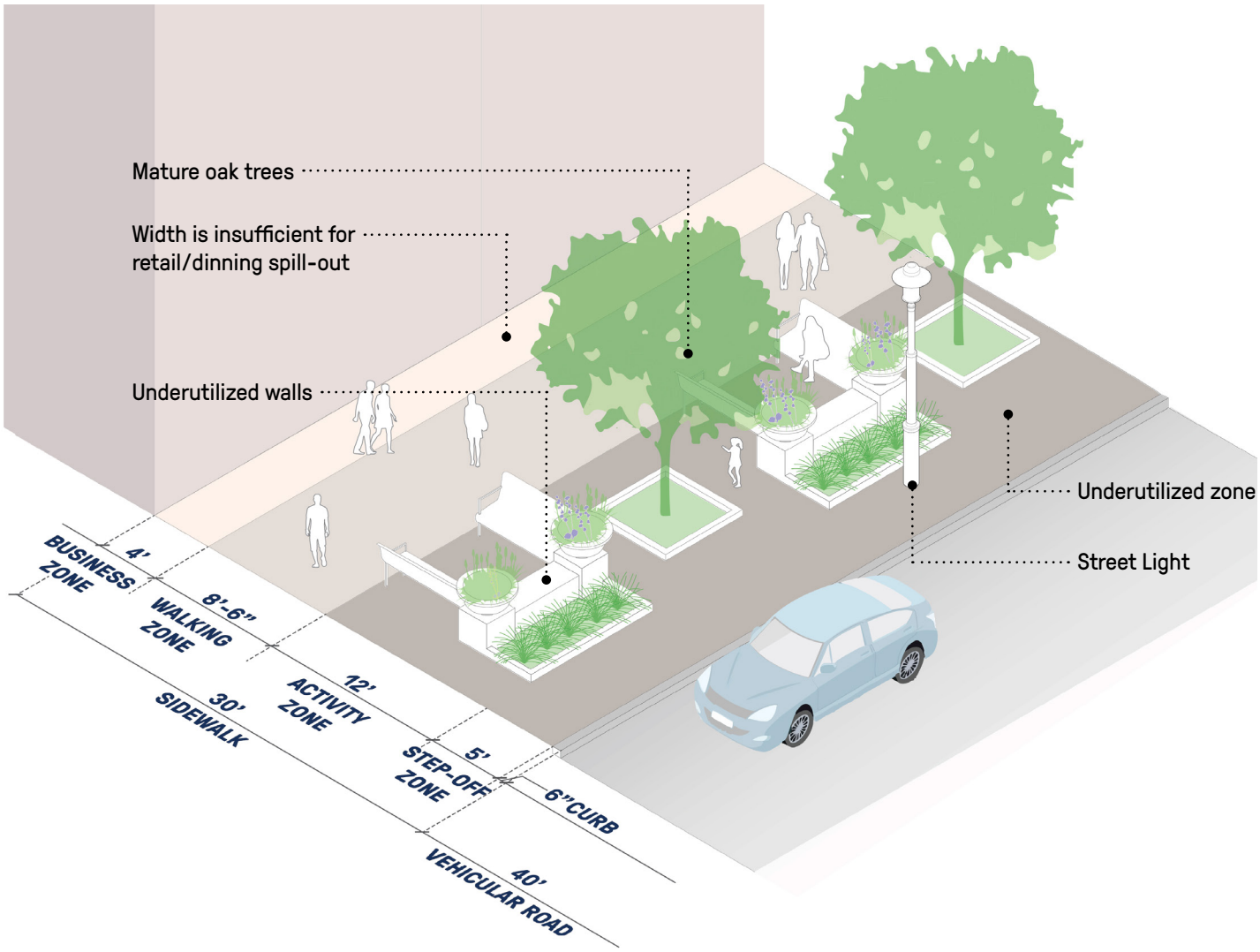
Streetscape Plan

1.2 Streetscape

1.2.2 Proposed Typical Streetscape

This Streetscape Plan proposes a strategic reallocation of the existing 30-foot public right-of-way between the property line and the curb. The design optimizes pedestrian circulation and sidewalk dining while preserving critical infrastructure and mature street trees. A primary feature of this realignment is the relocation of the pedestrian clear path toward the roadway, facilitating the creation of a dedicated 8' wide Business Zone adjacent to storefronts for expanded sidewalk dining and other allowable permitted business activities.

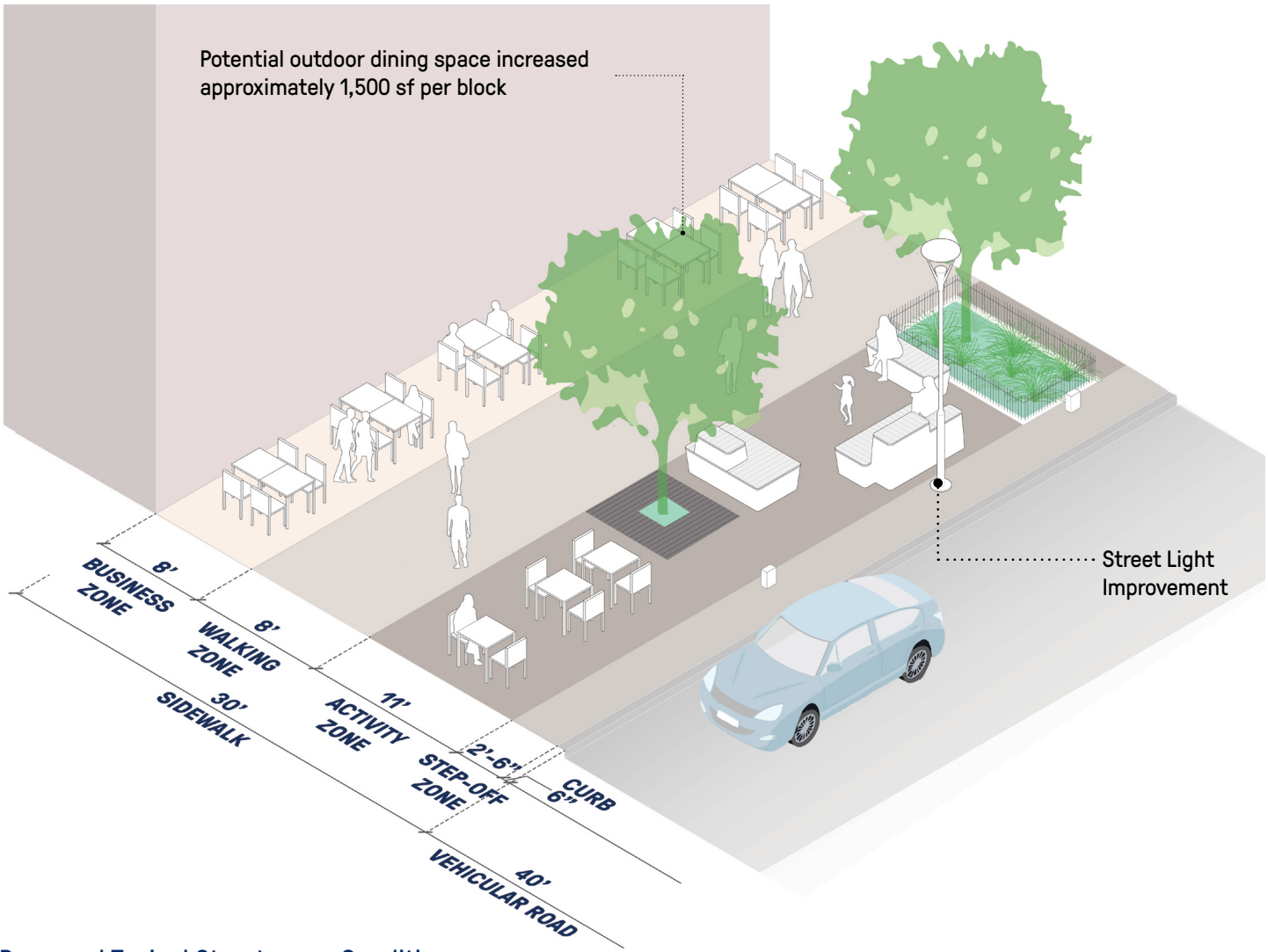
Situated between the pedestrian path and the curb, a reimagined Activity Zone features expanded planting beds that introduce a rhythmic succession of "urban rooms" along the corridor. Additionally, a 2.5' step-off zone is maintained at the curb to ensure safe and unobstructed passenger egress from parked vehicles.



Existing Typical Streetscape Condition

To prioritize the pedestrian environment and ensure a safe and comfortable walking zone, no new curb cuts or driveways are permitted along Fayetteville Street.

To protect the viewshed between the North Carolina State Capitol and the Center for Performing Arts Center as a civic and symbolic axis, new buildings or structures shall not encroach into the existing public right-of-way.



Proposed Typical Streetscape Condition

Streetscape Plan

1.2 Streetscape

1.2.2 Proposed Typical Streetscape

The before and after images illustrate the transformative effects of reorganizing the sidewalk zone to accommodate sidewalk dining adjacent to the storefronts. New paving treatments, lighting, wayfinding, and furnishings bring a refreshed aesthetic and contemporary flair to the streetscape. Newly installed streetscape programming and activations will bring new activity to the street, especially in zones that are lacking in retail storefronts or food and beverage uses.



Existing Streetscape Condition



Proposed Streetscape Condition


BLINC

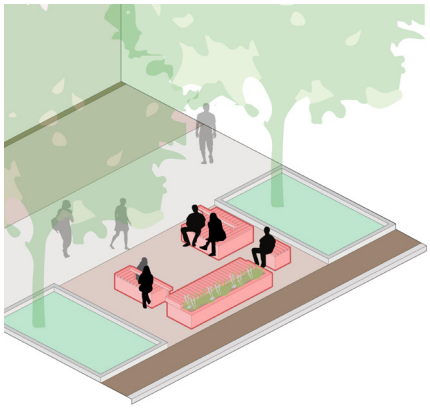
Streetscape Plan

1.2 Streetscape

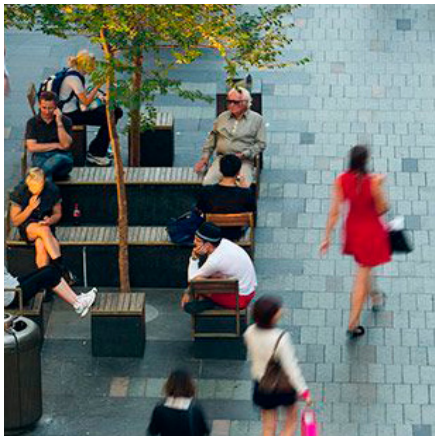
1.2.3 Streetscape Programming

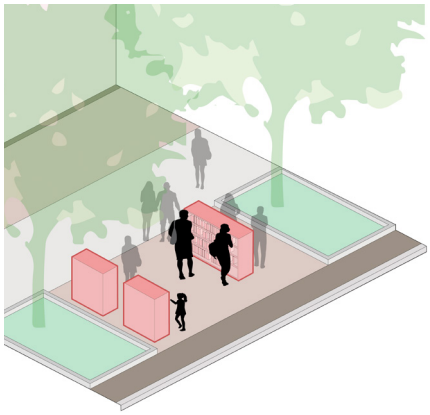
A wide range of activations and programming can be deployed along Fayetteville Street, from more typical elements such as fixed and movable seating and public art to less conventional elements such as table games, performance stages, and play lawns. Some programs are temporary while others may be permanent. Some may be privately funded by individual business owners while others may be city initiatives. The ground floor use of the adjacent business is also an important consideration – some uses are more appropriate for retail and food and beverage environments (e.g., sidewalk dining, retail displays), while others may be better suited for civic, commercial, residential, or hospitality environments.

General Notes:
Streetscape programming shall be located in the Activity Zone. The options shown in the Streetscape Plan are not requirements, but rather a list of recommended options for activation and programming along the corridor.

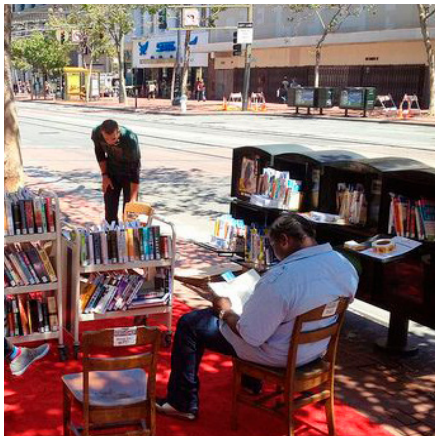


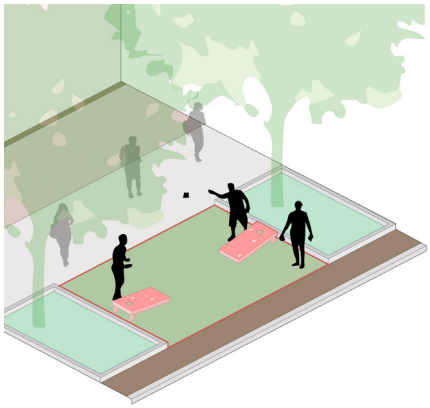
Fixed Seating





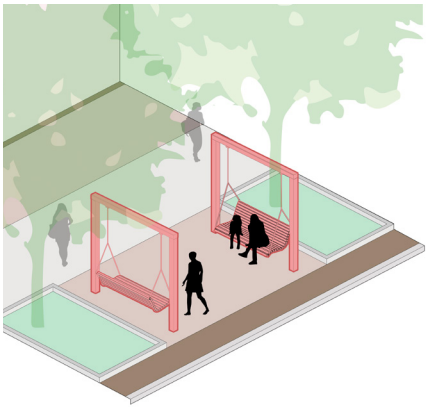
Retail Display





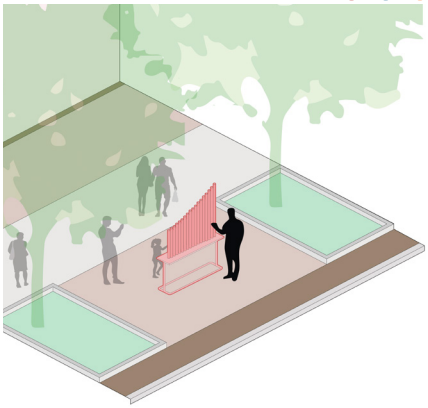
Lawn





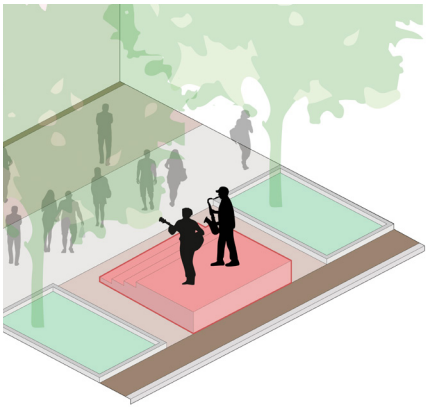


Interactive Furniture





Interactive Art



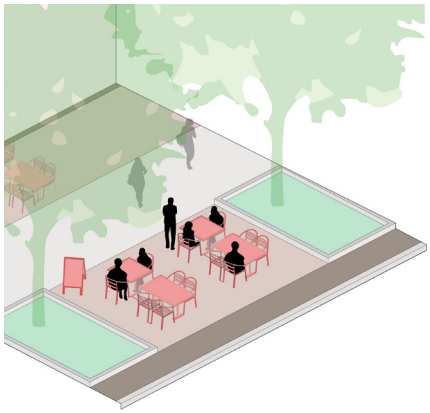


Stage

- Permanent
- Temporary
- Privately funded
- Publicly funded
- Adjacent to F&B
- Adjacent to Civic
- Adjacent to Commercial
- Adjacent to Residential
- Adjacent to Hospitality

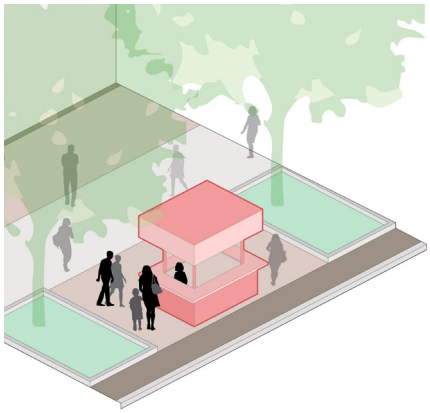
1.2 Streetscape

1.2.3 Streetscape Programming



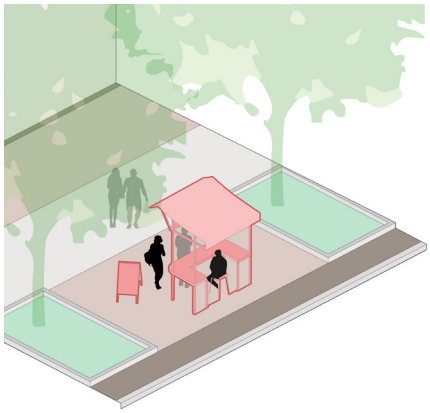
Sidewalk Dining





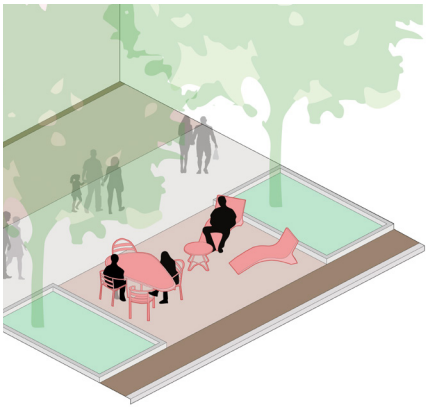
Retail Kiosk





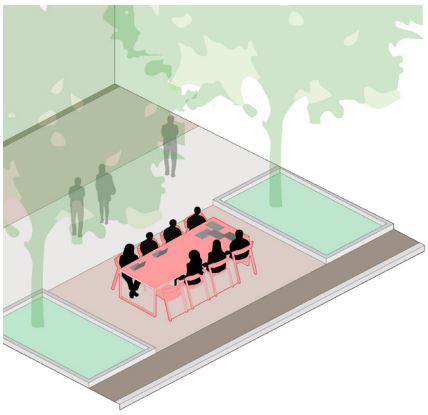
Civic Kiosk





Movable Seating





Workspace



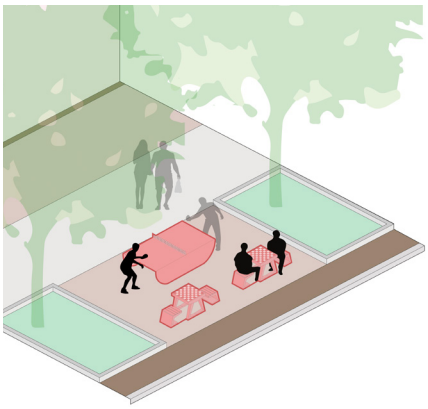


Table Games



- Permanent
- Temporary
- Privately funded
- Publicly funded
- Adjacent to F&B
- Adjacent to Civic
- Adjacent to Commercial
- Adjacent to Residential
- Adjacent to Hospitality

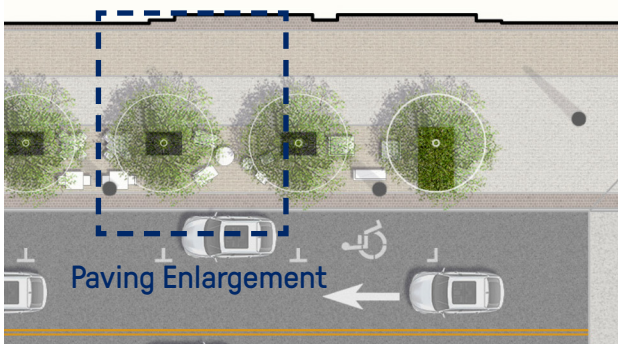
Streetscape Plan

1.2 Streetscape

1.2.4 Materials and Furnishings

Typical Streetscape

The proposed paving design utilizing off-the-shelf precast concrete pavers seeks to reinforce the sidewalk zones and their distinct uses while considering maintenance, durability, and ease and economy of construction. Paver Type “A” is used in the Step-Off Zone adjacent to the curb and the Building Frontage Zone. Paver Type “B” is used in the Business Zone and Activity Zone. Paver Type “C” is used in the Walking Zone.



Key Layout Plan



6” Building Frontage Zone

7’-6” Business Zone

8’ Walking Zone

11’ Activity Zone

2’-6” Step-Off Zone

6” Existing Curb

0 1’ 2’ 4’

Typical Streetscape Paving Enlargement

Paver Typologies

Paver A



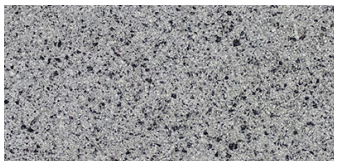
Base Option

Material: Precast concrete

Color: HRL-37

Size: 6”x6”x3”

Product: Wausau Tile H-Series Ridgeline



Alternative Option

Material: Precast concrete

Color: HRL-12

Size: 6”x6”x3”

Product: Wausau Tile H-Series Frontier

Paver B



Base Option

Material: Precast concrete

Color: Limestone gray

Size: 5 7/8” x 23 ½” x 3”

Product: Hanover Prest Paver



Alternative Option

Material: Precast concrete

Color: SSP-34

Size: 6”x24”x3”

Product: Wausau Tile Series Sesto V

Paver C



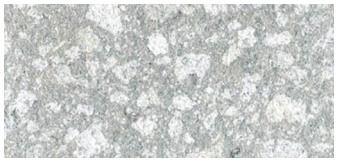
Base Option

Material: Precast concrete

Color: HRT-27

Size: 12”x24”x3”

Product: Wausau Tile Estate



Alternative Option

Material: Precast concrete

Color: SSP-30

Size: 12”x24”x3”

Product: Wausau Tile Series Sesto V

General Notes:

1. The following are the preferred paving material, in the event the paver is no longer manufactured or unavailable to procure, a similar paver in material and color may be used, subject to review and approval by the City of Raleigh.
2. Pavers specified shall at a minimum be pedestrian grade. Vehicular grade pavers may be installed in select locations, subject to review and approval by the City of Raleigh.
3. Unit pavers shall be installed on a setting bed over concrete subgrade, unless noted otherwise.

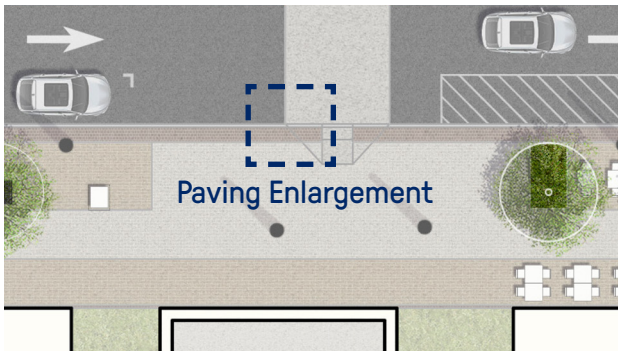
Streetscape Plan

1.2 Streetscape

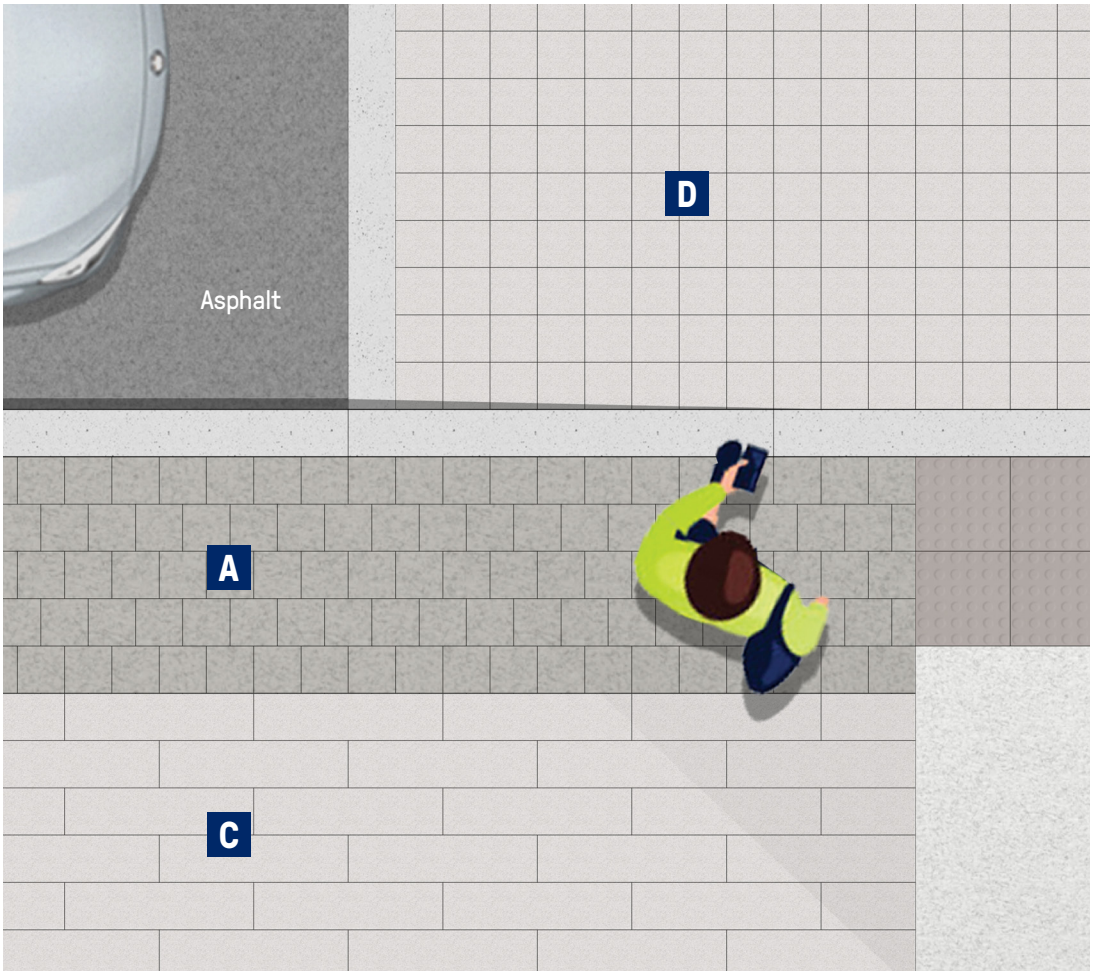
1.2.4 Materials and Furnishings

Mid-block Crossing

Paver Type “A” is applied in the Step-Off Zone adjacent to the curb, and Paver Type “C” is used within the Walking Zone—both consistent with the typical streetscape palette. Paver Type “D” is designated for mid-block crossings, accommodating both pedestrian and vehicular use.



Key Layout Plan



Mid-Block Crossing

6” Existing Curb

2’-6” Step-Off Zone/ Ramp

Walking Zone

0 1’ 2’ 4’

Typical Mid-block Crossing Paving Enlargement

Paver Typologies

Paver A



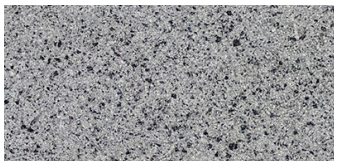
Base Option

Material: Precast concrete

Color: HRL-37

Size: 6”x6”x3”

Product: Wausau Tile H-Series Ridgeline



Alternative Option

Material: Precast concrete

Color: HRL-12

Size: 6”x6”x3”

Product: Wausau Tile H-Series Frontier

Paver C



Base Option

Material: Precast concrete

Color: HRT-27

Size: 12”x24”x3”

Product: Wausau Tile Estate



Alternative Option

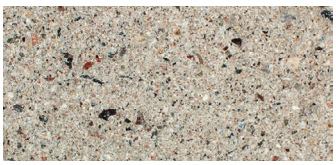
Material: Precast concrete

Color: SSP-30

Size: 12”x24”x3”

Product: Wausau Tile Series Sesto V

Paver D



Base Option

Material: Precast concrete

Color: HRT-27

Size: 6”x6”x3”

Product: Wausau Tile Estate



Alternative Option

Material: Precast concrete

Color: SSP-30

Size: 6”x6”x3”

Product: Wausau Tile Series Sesto V

General Notes:

1. The following are the preferred paver specifications. In the event the paver is no longer manufactured or unavailable to procure, a similar product may be used, subject to review and approval by the City of Raleigh.
2. Paver D shall be vehicular grade. An alternative size for Paver D may be used if the specified size is deemed impractical, subject to review and approval by the City of Raleigh.

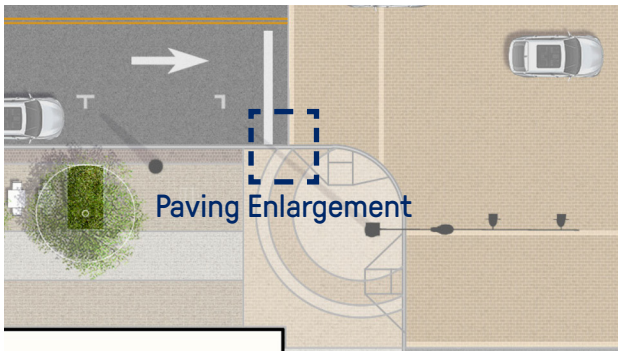
Streetscape Plan

1.2 Streetscape

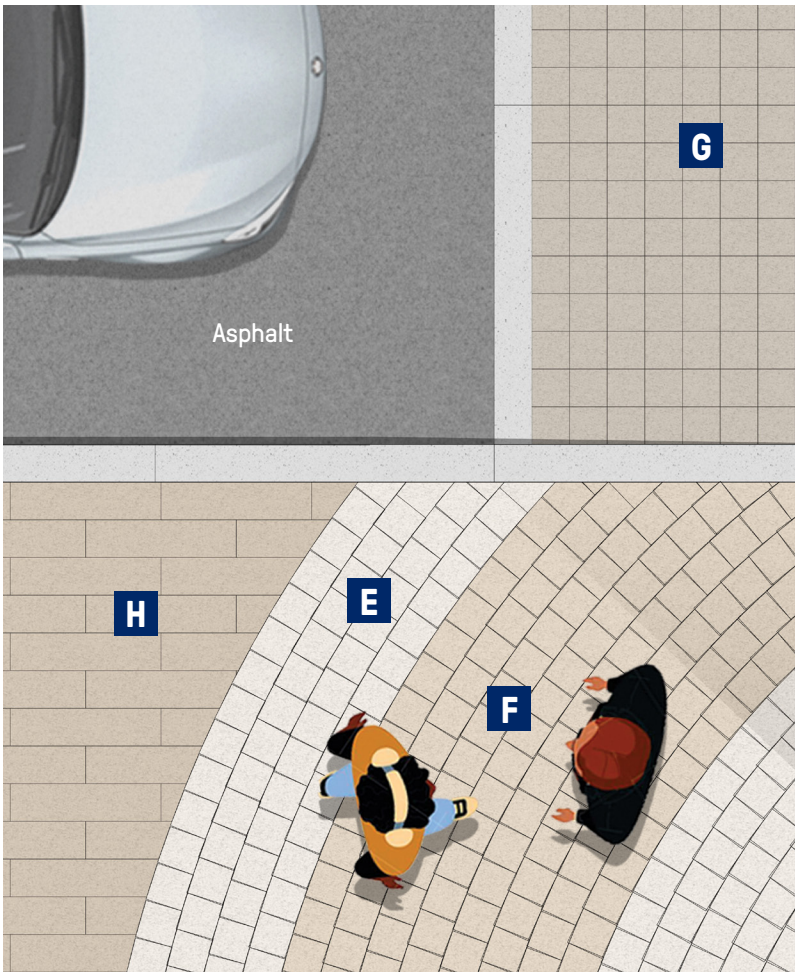
1.2.4 Materials and Furnishings

Intersections

Paver Types “E,” “F,” “G,” and “H” are used within the special intersection paving walking zone, introducing subtle tonal variations that reinterpret the tree ring concept at a finer grain. Paver Type “G” is designated for the intersection crossings for shared pedestrian and vehicular use.



Key Layout Plan



Intersection Crossing

6” Existing Curb

Intersection Special Paving/Ramp

Typical Intersection Paving Enlargement

Paver Typologies

Paver E



Material: Precast concrete
Color: HGL-15
Size: 6” x 6” x 3”
Product: Wausau Tile H-Series Galaxy

Paver F



Material: Precast concrete
Color: HGL-20
Size: 6” x 6” x 3”
Product: Wausau Tile H-Series Galaxy

Paver G



Material: Precast concrete
Color: HGL-30
Size: 6” x 6” x 3”
Product: Wausau Tile H-Series Galaxy

Paver H



Material: Precast concrete
Color: HGL-35
Size: 6” x 24” x 3”
Product: Wausau Tile H-Series Galaxy

Paver Typologies (Simplified Alternate)

Paver C



Base Option

Material: Precast concrete
Color: HRT-27
Size: 12”x24”x3”
Product: Wausau Tile Estate



Alternative Option

Material: Precast concrete
Color: SSP-30
Size: 12”x24”x3”
Product: Wausau Tile Series Sesto V

General Notes:

1. Paver C may be used instead of Paver E, Paver F, and Paver G if the concentric paver design is not practicable, subject to approval by the City of Raleigh.
2. Paver G shall be vehicular grade. An alternative size for Paver G may be used if the specified size is deemed impractical, subject to review and approval by the City of Raleigh.
3. Paver E, Paver F, and Paver G shall at a minimum be pedestrian grade.
4. An alternative size for Paver G may be used if Paver G is deemed not practicable, subject to approval by the City of Raleigh.

Streetscape Plan

1.2 Streetscape

1.2.4 Materials and Furnishings

The furnishing strategy for Fayetteville Street is designed to accommodate a diverse range of social interactions and functional requirements. By providing a spectrum of seating typologies—from individual movable chairs to permanent group installations—the plan ensures the public realm remains accessible, comfortable, and adaptable.

General Notes:

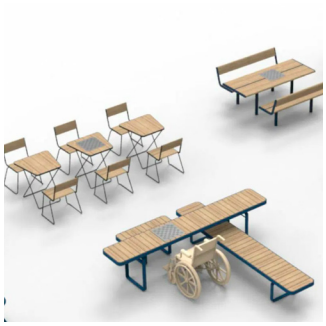
1. The following are preferred styles furnishing types for Fayetteville Street. Selected furnishing should match the themes and intent and function of the selected items. The selected furnishings are the preferred option, but if no longer manufactured or unavailable to be procured, alternates can be used.
2. Privately installed street furnishing would be required to follow any applicable permitting from the Special Events Office.

Game Furniture



Chess Table Opt1

Manufacturer: The Urban Conga
Product: Signature Dominoes Table(Chess Table)
Size: 34”D x 34”W x 30”H (Table), 12”D x 18”W x 18”H(Stool)
Material: Stainless Steel, powdercoated finish



Chess Table Opt2

Manufacturer: Vestre
Product: ACCESSORIES-series Game Surfaces
Size: Varies
Material: Hot-dip galvanised and powder-coated steel, wood



Table Tennis Table Opt1

Manufacturer: POPP
Product: HEROair outdoor table tennis table
Size: 9’L x 4.9’W x 2.5’H
Material: Strengthened marine-grade aluminium, powdercoated finish



Table Tennis Table Opt2

Manufacturer: POPP
Product: ICON outdoor table tennis table
Size: 9’L x 4.9’W x 2.5’H
Material: Steel, powdercoated finish



Cornhole (on lawn)

Manufacturer: American Cornhole Association
Product: Custom Versatex All-Weather Cornhole Boards
Size: 4’L x 2’W, 6” DIA(hole)
Material: Versatex PVC

Artificial Lawn



Artificial Turf 1

Manufacturer: SYNLAWN
Product: SYNAUGUSTINE 347



Artificial Turf 2

Manufacturer: LandScapes by Forever Lawn
Product: SELECT HD

Streetscape Plan

1.2 Streetscape

1.2.4 Materials and Furnishings



Movable Seating

Manufacturer: Landscape Forms
Product: Parc Centre Lounge Chair
Size: 30”D x 23”W x 43”H (with arms), 30”D x 20”W x 43”H(no arms)
Material: Powdercoated metal(fine texture)



Sculptural Seating

Manufacturer: Landscape Forms
Product: Petra
Size: 43.25”D x 37.25”L x 18.25”H(XS), 74.25”D x 46”L x 18.25”H(S)
Material: Escofet concrete(with acid-etched finish)



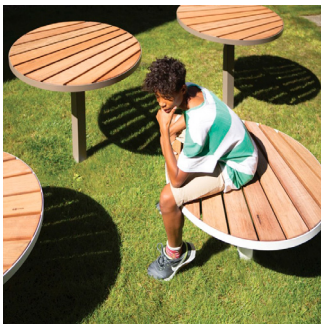
Fixed Seating 1

Manufacturer: mmcite
Product: Morse Dot
Size: 36”D x 20”W x 30”H
Material: Powdercoated steel, wood(Jatoba FSC C167403)



Fixed Seating 2

Manufacturer: Vestre
Product: STRIPES Bench
Size: 70.1”DIA x 16.3”H
Material: Hot-dip galvanised and powder-coated steel, oiled oak (xxx-940/941)



Group Seating 1

Manufacturer: mmcite
Product: Lago Stool/Outdoor Round Table
Size: 34”DIA x 18”H/ 34”DIA x 30”H
Material: Powdercoated steel, wood(Jatoba FSC C167403)



Group Seating 2

Manufacturer: mmcite
Product: Landscape Compact
Size: Varies
Material: Powdercoated steel, wood(Jatoba FSC C167403)



Stage Seating 1

Manufacturer: Streetlife
Product: Solid Podium Discs
Size: 116.1”DIA x 18.5”H(4 seats)
Material: Powdercoated steel, cumaru wood



Stage Seating 2

Manufacturer: mmcite
Product: Urban Islands
Size: Varies
Material: Galvanized steel, wood(Jatoba FSC C167403)



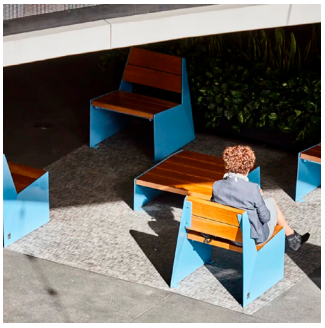
Movable Seating

Manufacturer: mmcite
Product: Rivage
Size: 63”D x 31”W x 34”H
Material: Powdercoated steel, wood(Jatoba FSC C167403)/ Powdercoated steel only



Sculptural Seating

Manufacturer: mmcite
Product: Sinus(Stool)
Size: 18”D x 32”W x 18”H
Material: Powdercoated steel (Perforated Steel Sheet)



Fixed Seating 1

Manufacturer: Vestre
Product: BLOC Chair
Size: 26.4”D x 28”W x 31.1”H
Material: Hot-dip galvanised and powder-coated steel, oiled oak (xxx-940/941)



Fixed Seating 2

Manufacturer: Vestre
Product: STOOP Bench
Size: 49.5”D x 61.3”W x 27.7”H
Material: Hot-dip galvanised and powder-coated steel, oiled oak (xxx-940/941)



Group Seating 1

Manufacturer: Vestre
Product: MOVE Bench
Size: 17”D x 65”W x 18”H
Material: Hot-dip galvanised and powder-coated steel, Oiled oak (xxx-940/941)



Group Seating 2

Manufacturer: F+S
Product: Eulo Seating
Size: Varies
Material: Powdercoated steel, Cumaru wood



Stage Seating

Manufacturer: Vestre
Product: UNITY Seat
Size: 95.9”L x 63”W x 16.9”H
Material: Hot-dip galvanised and powder-coated steel, oiled oak (xxx-940/941)

Streetscape Plan

1.2 Streetscape

1.2.4 Materials and Furnishings

The proposed color palette for hardscape and furnishings utilizes a neutral foundation of grays and earth tones supplemented by a diverse range of warm and cool accent colors. Together, these colors will provide a versatile framework for wayfinding and placemaking, ensuring that new interventions complement the existing historic context while injecting a renewed sense of energy into the public realm.

Neutrals

- RAL 7012 — Basalt grey
- RAL 7035 — Light grey
- RAL 9016 — Traffic white
- RAL 7044 — Silk grey

Primary Accents

- RAL 1003 — Signal yellow
- RAL 1030 — Traffic yellow
- RAL 1021 — Colza yellow
- RAL 1028 — Melon yellow
- RAL 1006 — Maize yellow
- RAL 2000 — Gelborange
- RAL 2013 — Pearl orange (+450, -Euro)
- RAL 2001 — Red Orange

Secondary Accents

- RAL 6000 — Patina green
- RAL 6001 — Emerald green



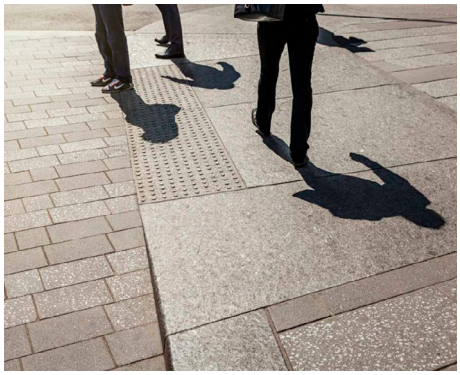
*Existing Umbrella Color at City Plaza

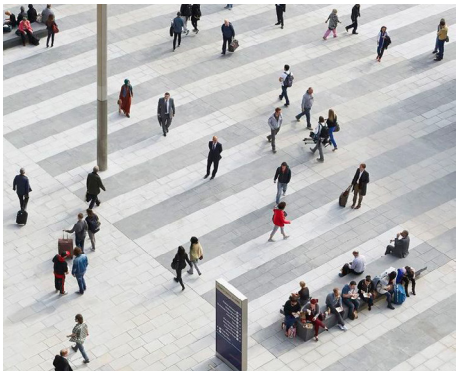
Tertiary Accents

- RAL 3017 — Rose
- RAL 3002 — Carmine red
- RAL 3028 — Pure red
- RAL 5003 — Saphire blue
- RAL 5005 — Signal blue
- RAL 5012 — Light blue
- RAL 5000 — Violet blue

General Notes:

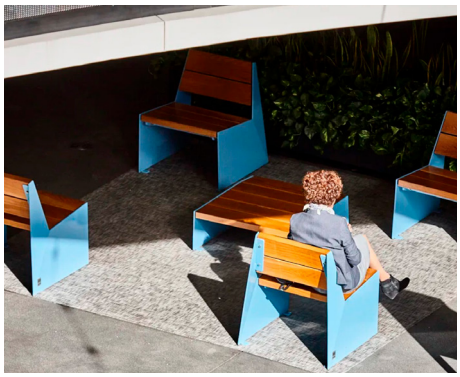
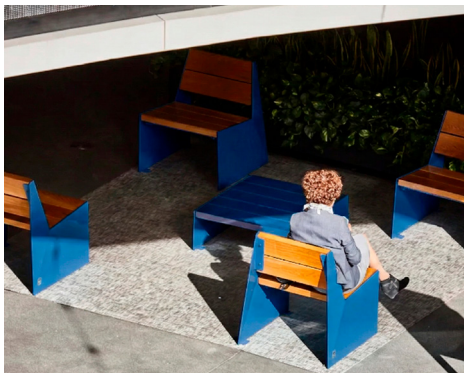
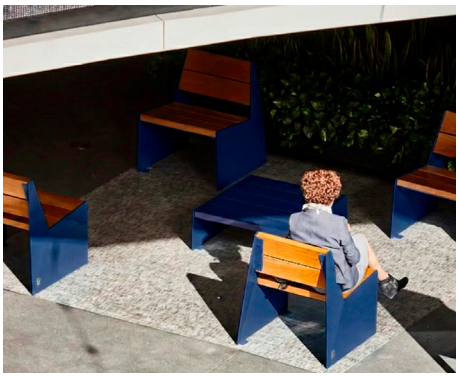
1. Primary and secondary accents are recommended for street furniture, while tertiary accents are better suited for public art.
2. Colors similar in hue to the recommended color palette may be used, subject to approval by the City of Raleigh.









Photos shown above are intented to visualize the recommended color palette. For recommended street furnishings, refer to previous pages in the document.

Streetscape Plan

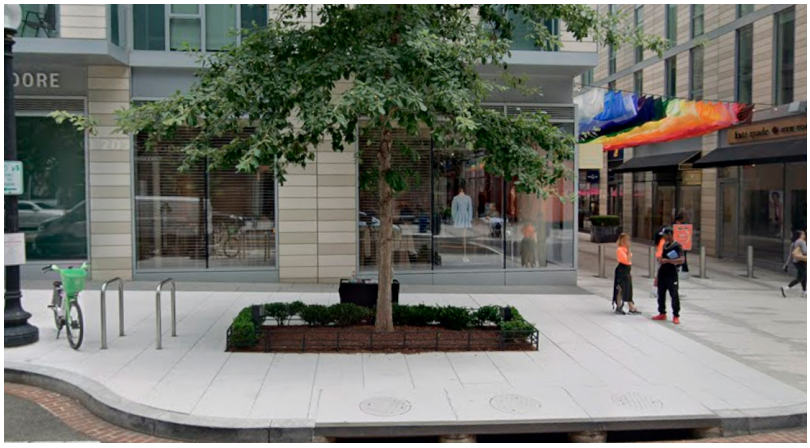
1.2 Streetscape

1.2.5 Concept Details

Planter Detail

The maturing oak trees remain a defining characteristic of Fayetteville Street and represent a primary success of the 2006 revitalization. In response to consistent stakeholder feedback advocating for increased greenery, this plan proposes the strategic expansion of existing tree pits. By enlarging these pits at alternating intervals, the design achieves a continuous rhythmic cadence of at-grade planting while minimizing the City's long-term maintenance requirements.

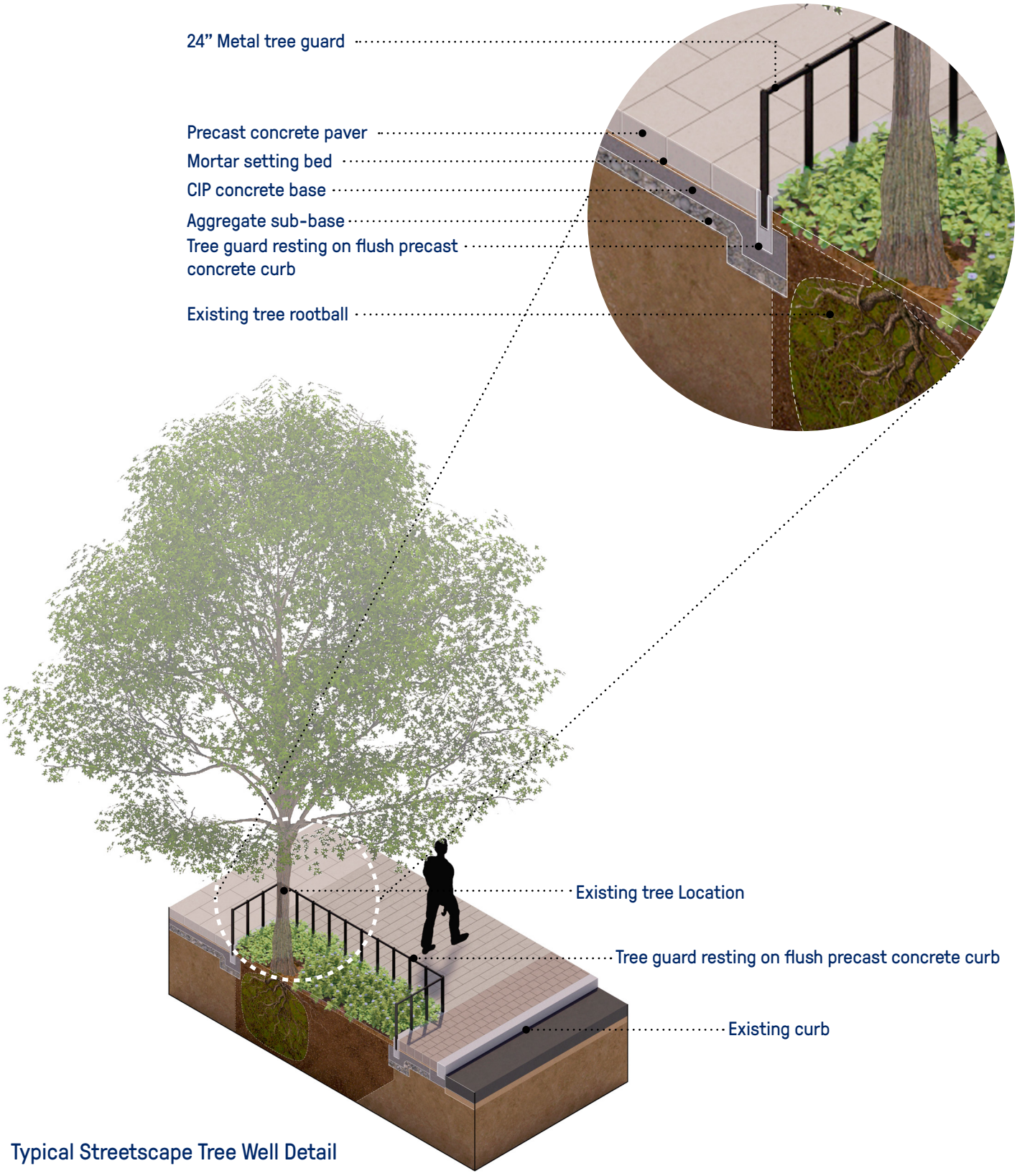
These expanded beds will utilize hardy groundcover to assist in moisture retention for the root zones without compromising the health of the existing canopy. To ensure the longevity of the landscape, low-profile railings will be installed to prevent trampling during high-traffic events and festivals. In areas where at-grade planting is not proposed, cast iron tree grates will be implemented; this approach protects critical root systems while maximizing the functional surface area of the Activity Zone.



Precedent Tree Well Guard in Washington, DC



Precedent Tree Well Guard in Chicago



Typical Streetscape Tree Well Detail

Streetscape Plan

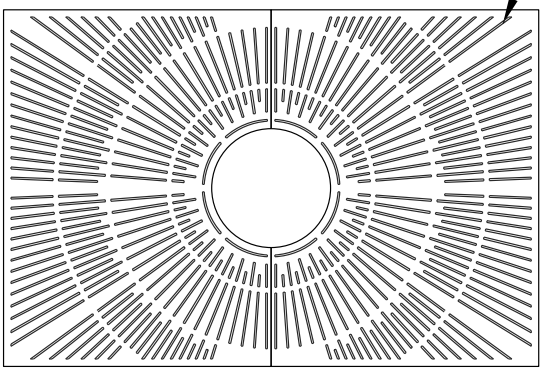
1.2 Streetscape

1.2.5 Concept Details

Paver Grate Detail

In areas where at-grade planting is not proposed, suspended pavement systems featuring paver grates will be implemented; this approach protects critical root systems while maximizing the functional surface area of the Activity Zone. The standard tree grate detail specified by the City of Raleigh will be utilized.

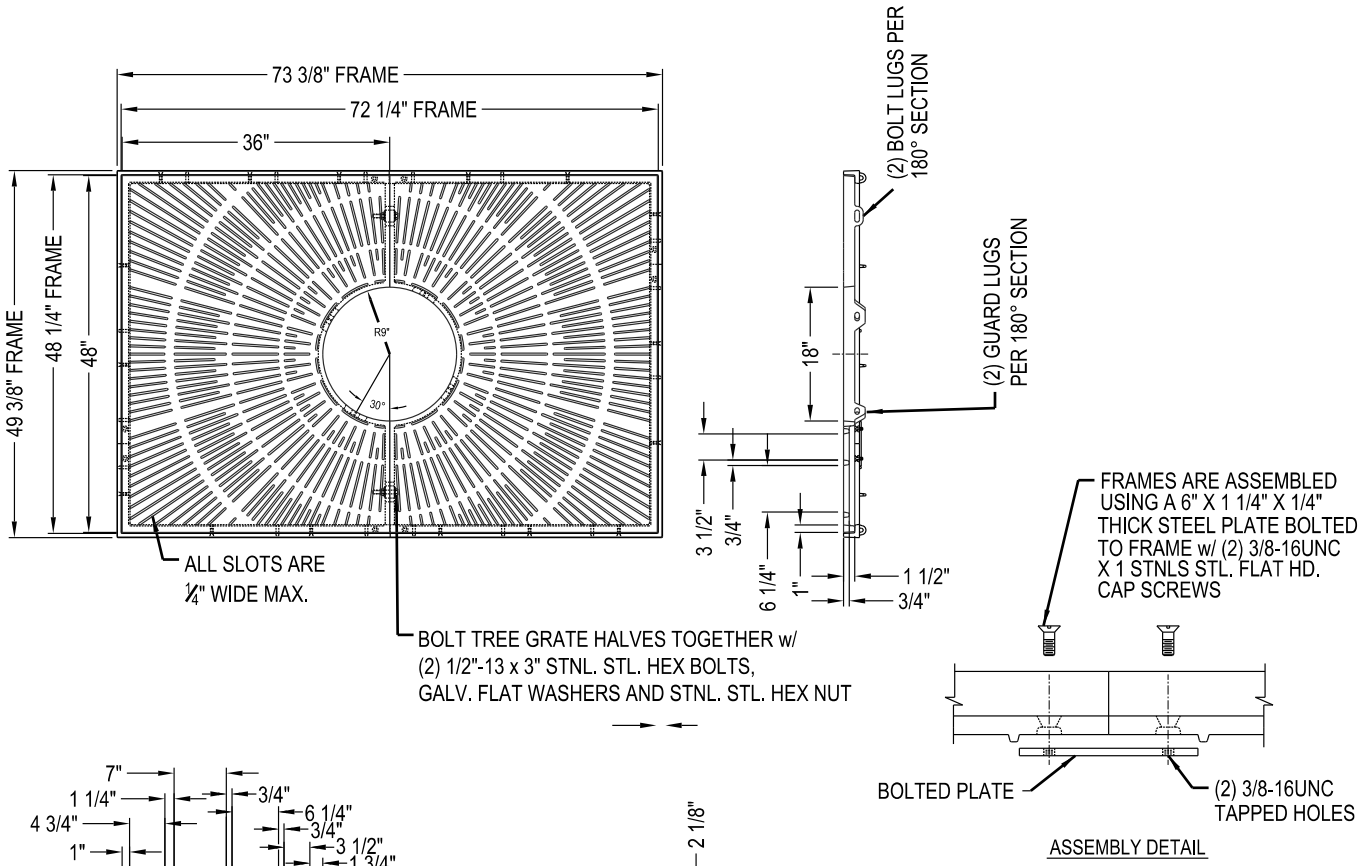
In areas where at-grade planting is not proposed, the City of Raleigh standard tree grate shall be used to protect critical root systems while maximizing the functional surface area of the Activity Zone. Should the City of Raleigh update the standard tree grate detail, such detail shall be utilized. As an alternative, flexible pavement may be used if there is reason to deviate from the standard tree grate, subject to review and approval by the City of Raleigh.



NOTES:

1. GRATE DESIGN MUST BE ADA COMPLIANT.
2. GENERAL PATTERN DESIGN MUST BE AS SHOWN.
3. EXCEPTIONS OR PERSONALIZATION MUST BE REVIEWED AND APPROVED BY THE CITY OF RALEIGH.
4. A TREE IMPACT PERMIT IS REQUIRED.
5. ADHERE TO STANDARDS IN THE CITY TREE MANUAL.
6. ELECTRIC OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE GRATE AREA.

CONTACT INFORMATION:
CITY OF RALEIGH PARKS, RECREATION AND CULTURAL RESOURCES DEPARTMENT URBAN FORESTER:TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV



NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: 608#/SET

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	TREE GRATE IN SIDEWALK WITHIN ROW	
	TPP-06	

Standard Tree Grate Detail by the City of Raleigh

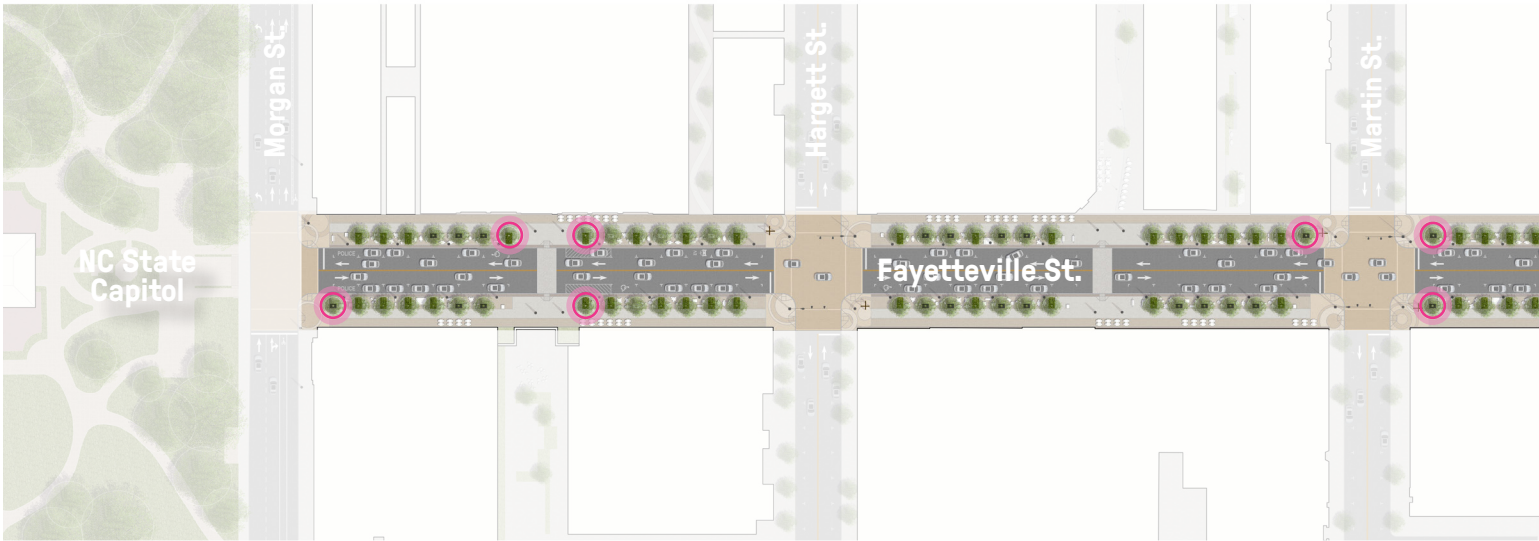
Streetscape Plan

1.2 Streetscape

1.2.6 Planting Palette

Street Trees

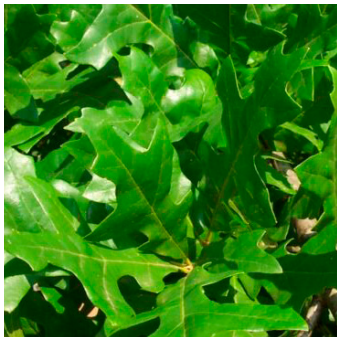
The existing street trees along Fayetteville Street are Highbeam® overcup oaks, and the proposed trees will be of the same species. Locations of both existing and proposed trees are indicated on the site plan. In the event of tree decline or loss, replacements shall be installed in the same locations to preserve continuity of the streetscape canopy.



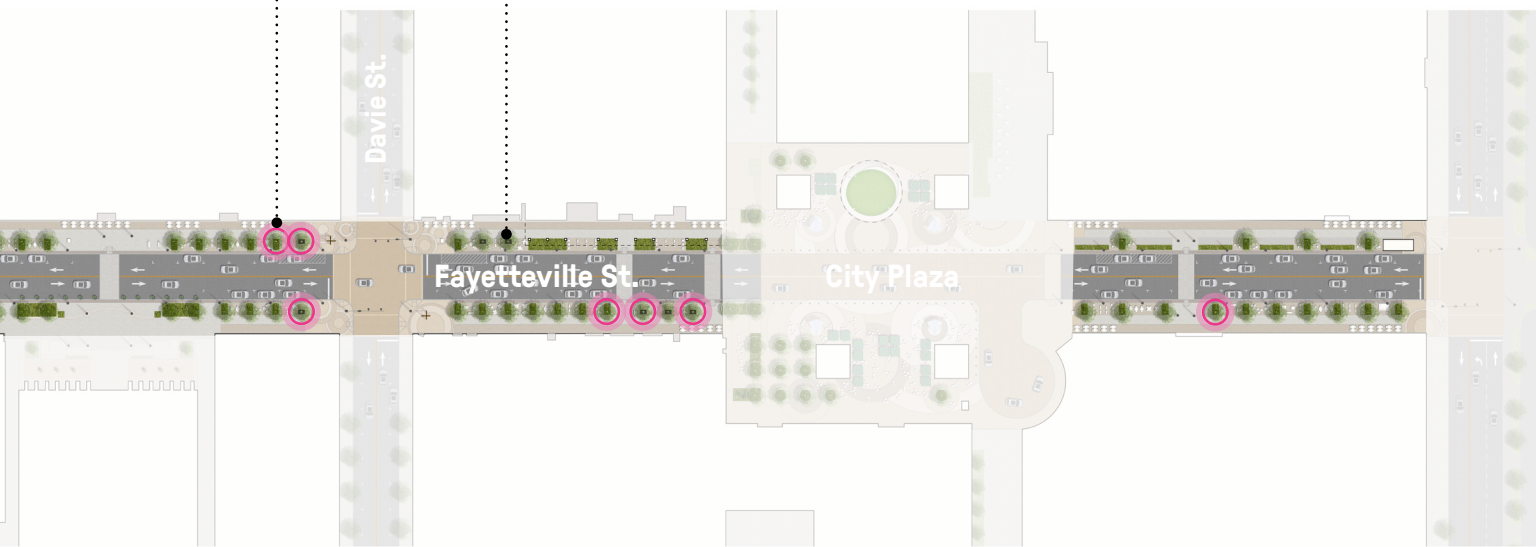
Overall Illustrative Site Plan

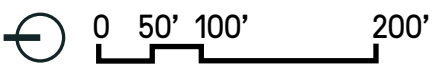
Existing Trees: 94
Proposed Trees: 14





Highbeam® Overcup Oak
Quercus lyrata 'Highbeam'





Streetscape Plan

1.2 Streetscape

1.2.6 Planting Palette

Understory

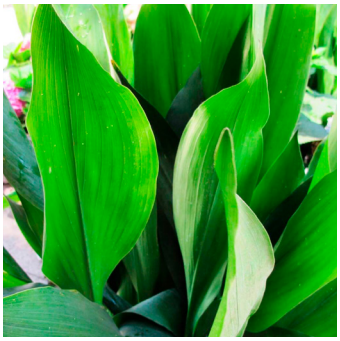
The following selection comprises a refined palette of hardy, resilient species specifically curated to thrive within the rigors of the urban microclimate. These low-profile groundcovers have been selected for their high durability and minimal supplemental maintenance requirements.




Carolina Green-and-gold
Chrysogonum repens



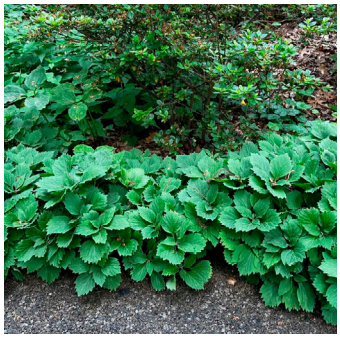

Marginal Wood Fern
Dryopteris marginalis

Cast-iron-plant
Aspidistra elatior




Mondo Grass
Ophiopogon japonicus




Mountain Spurge
Pachysandra procumbens

General Notes:

1. Additional plantings may be approved, subject to approval by the City of Raleigh.
2. The existing trees are to be protected. Hand digging and air spading to be used by certified professional planting installers chosen in collaboration with Urban Forestry. This is to be further coordinated with the design team, the City, and the Certified Arborist in later stages of work.
3. Existing paver, existing tree grates, etc. to be removed are to not harm the existing trees, existing tree root structure, and / or the existing planting soil at the tree's root system. The demolition and installation of new paving is to be completed by a certified professional only, with the oversight of a Certified Arborist.

Streetscape Plan

1.2 Streetscape

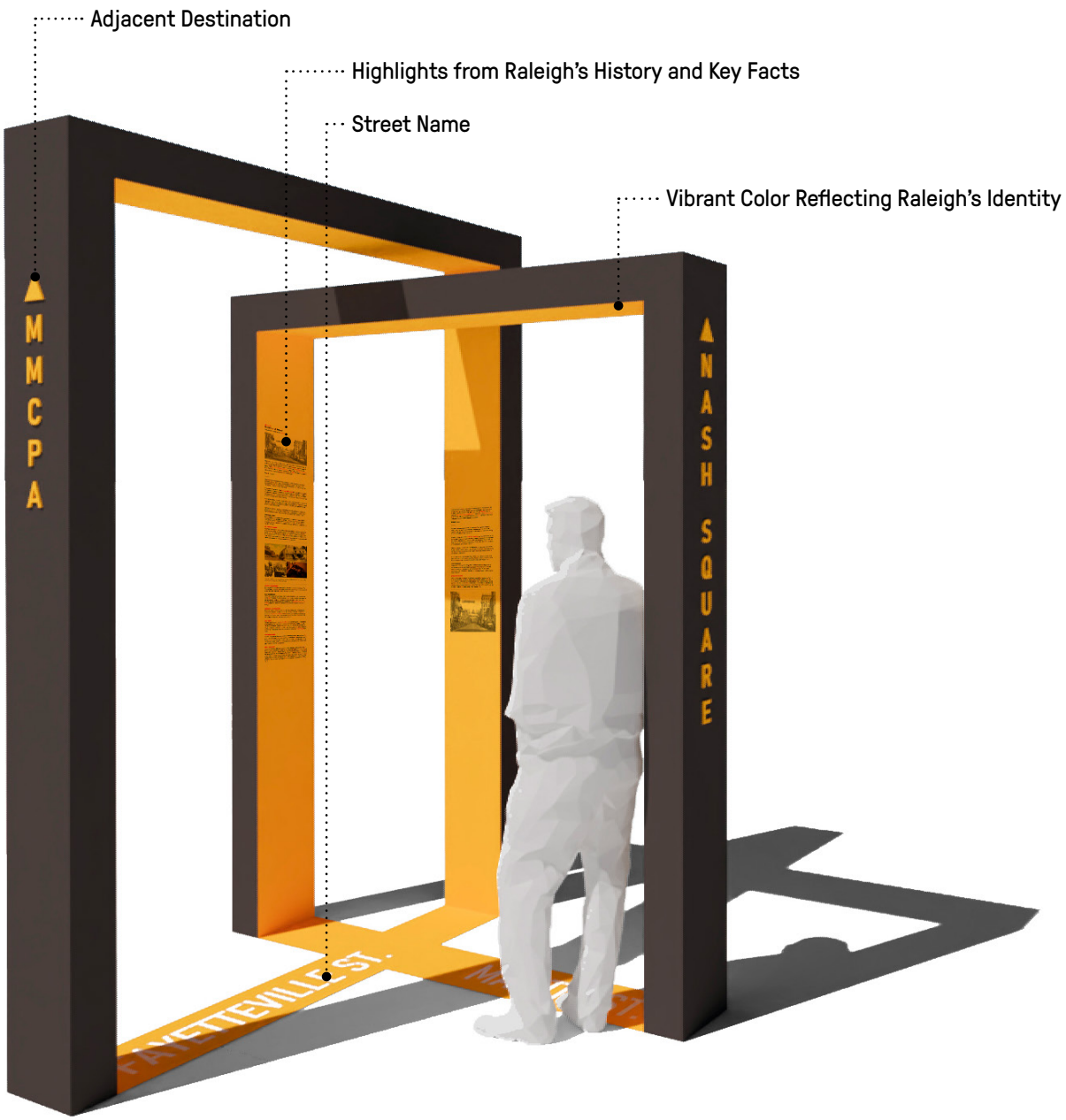
1.2.7 Wayfinding Elements

Where Fayetteville intersects with the perpendicular east–west streets, there is an opportunity to establish a welcoming gateway and strengthen wayfinding within the broader downtown district. Wayfinding elements may be designed as interactive features that reinforce district identity through bold, memorable forms and locally inspired motifs. All such elements shall be carefully integrated to maintain unobstructed pedestrian circulation and preserve clear sightlines, including key axial views toward prominent landmarks such as the State Capitol, as well as required vehicular sight-distance and visibility triangles.

Drawing inspiration from the William Christmas Plan for the City of Raleigh, the Framed Passthrough reinterprets the street grid as a contemporary, interactive wayfinding feature. Composed of two interlocking frames, the installation establishes a clear threshold within the public realm, inviting visitors to pass through while creating moments for interpretation, learning, and discovery. A bold, district-specific color palette enhances visibility and identity, while interior surfaces provide opportunities to communicate city facts, historic milestones, and locally rooted narratives.

General Notes:

1. The proposed wayfinding element is only a conceptual design. Additional design would be required, however, the design intent should be carried over through final design.
2. Wayfinding portals are to be installed by the City of Raleigh at the location identified in the Illustrative Plan.



Proposed Wayfinding Element

Streetscape Plan

1.2 Streetscape

1.2.7 Wayfinding Elements



Existing Streetscape Condition



Proposed Wayfinding Element


ANASH SQUARE

Streetscape Plan

1.2 Streetscape

1.2.8 Lighting Design

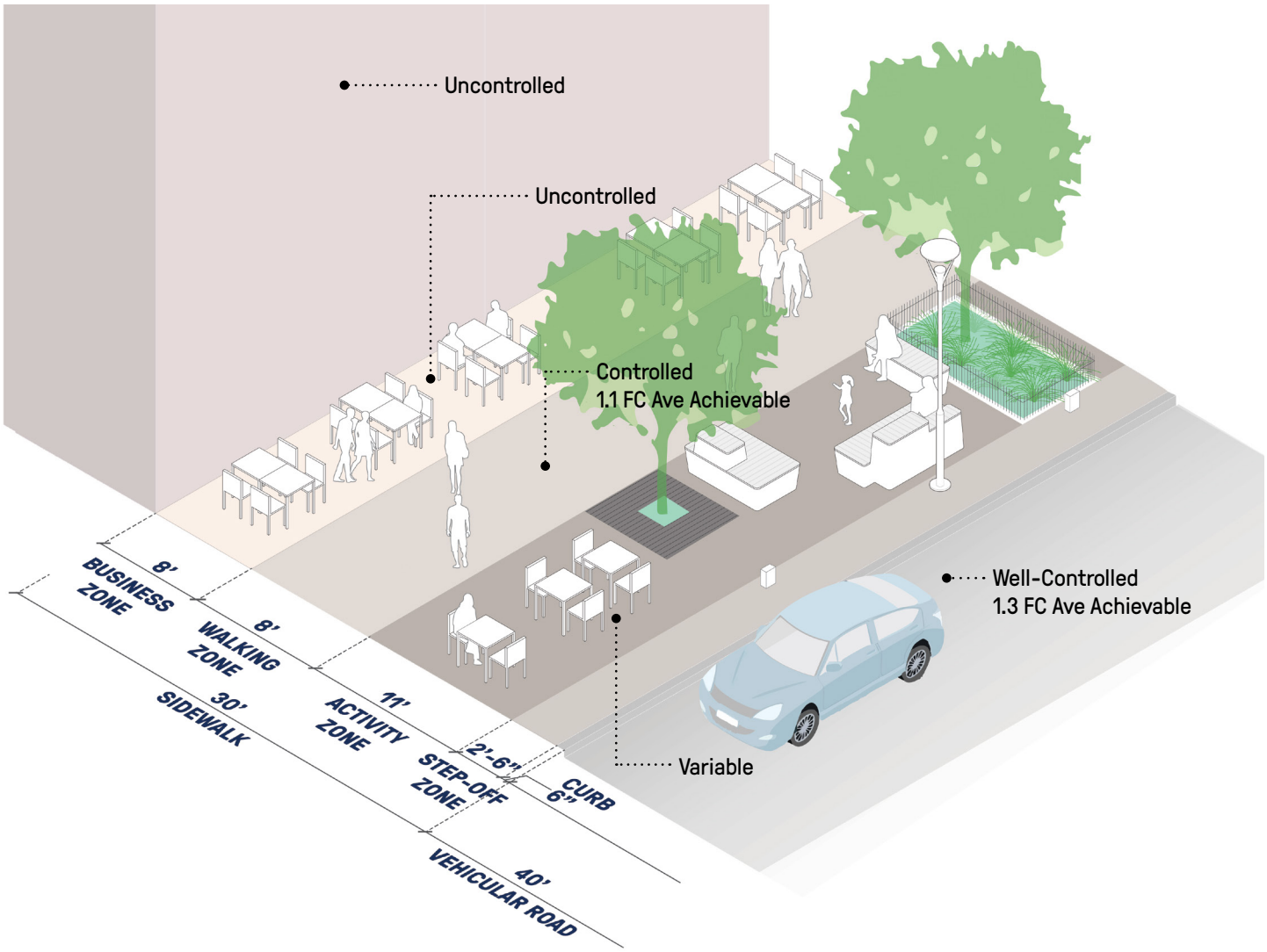
Illumination Zoning

Vehicular Roadway - Well Controlled
An average of 1.3 FC is achieved with layout proposed and with excellent uniformity. Illumination levels in the roadway will be minimally susceptible to tree foliage variations throughout the year.

Activity Zone - Variable
These spaces are highly susceptible to tree foliage over the seasons. Configuration and usage will vary, so an adaptable solution is recommended. Adjustable tree lighting is proposed.

Walking Zone - Controlled
The continuous 8ft walk zone needs to be maintained clear for pedestrians. Currently there is no dedicated lighting for the pedestrian areas. Light poles along the curb line concentrate illumination along the road which is then filtered back to the sidewalk through the trees achieving an observed baseline of 0.5 FC. The proposed layout reduces the impact of tree foliage with direct illumination of the walkways. An average of 1.1 FC can be achieved with the proposed layout creating a visible impact.

Business Zone - Uncontrolled
The facades of the various storefront and business entities vary widely on the amount and type of illumination they provide. These often overlit and variable amounts of illumination have a very high impact on the perception of darkness, and the overall sense of safety and security. Business facade lighting and finishes will also impact the actual sidewalk illumination.



Proposed Typical Streetscape Condition

Streetscape Plan

1.2 Streetscape

1.2.8 Lighting Design

Electrical Systems and Power Access

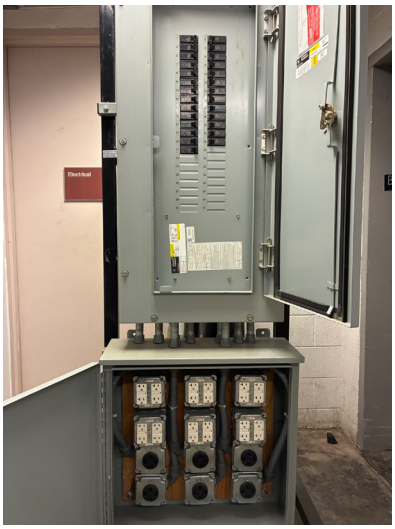
Power panels at each city block currently feed power outlets along the street that are used by the city for events and lights in the planter beds.

Power outlets are currently placed in each granite planter. Most of these power outlets are 120V, GFCI type outlets. Select locations have 208V, 20A type outlets. The existing 208V, 20A outlets found along the street shall be converted to 120V, GFCI type outlets at all locations.

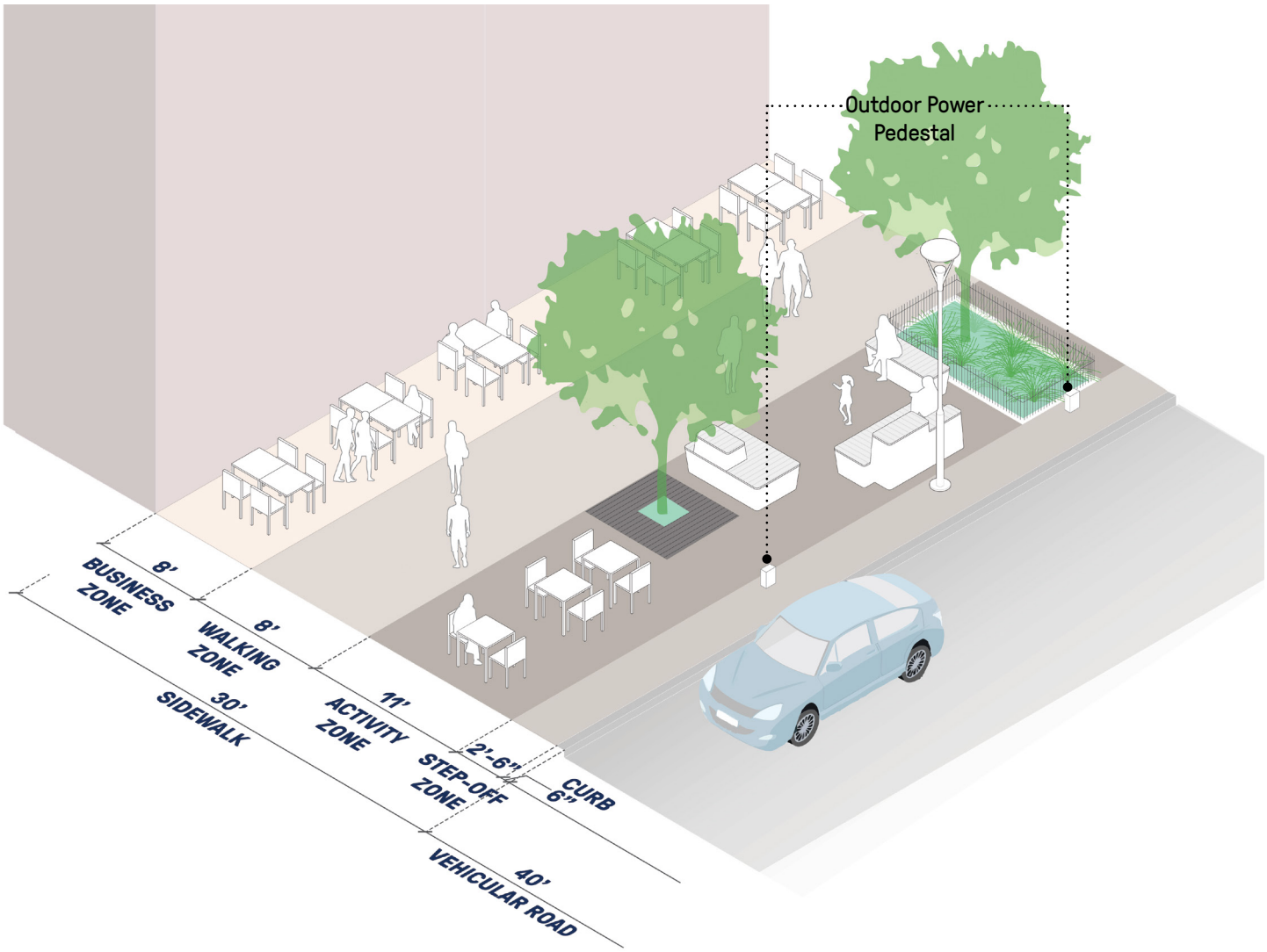
At locations where the existing granite planters are removed, new power pedestals or boxes shall be installed. These pedestals or boxes shall contain at a minimum two 120V, GFCI outlets on dedicated circuits. The cover shall be lockable with a padlock to prevent unauthorized access to the outlet and wiring. These power pedestals or boxes shall be located within 50' of each street corner and spaced no greater than 25' apart along the street except within City Plaza on the 400 block and in other select locations, such as in front of the courthouse entry steps. Refer to appendix for power pedestals or boxes specifications. Additional products my be used only with the approval by the City of Raleigh. Refer to the renderings on previous pages of this report showing power pedestals in the updated streetscape. Working with the tree spacing which is approximately 22', a rhythm is created which works with the power density needs to support food trucks. Where trees only have grates and no fencing, the power poles will be located at the back of curb and in-line with the trees.

200A, 208V power connections in the newsstand kiosks shall be removed at each location except at the newsstand kiosk at the southeast corner of Davie St. and Fayetteville St. in front of the Duke Energy building. Once these 200A connections are removed, the power capacity from these connections can be re-used as the street is updated to provide additional 120V outlets along the street. Up to thirty new 120V circuits can be provided in place of each 200A power connection that has been removed. New power panels may be required to provide these additional circuits. The city will continue to use a portable power panel cart for events in City Plaza by connecting to the power connection at Davie St and Fayetteville St.





Power panel



Proposed Typical Streetscape Condition

Streetscape Plan

1.2 Streetscape

1.2.8 Lighting Design

Street Lighting

Replace existing historic posttop luminaires 1:1 with modern streetlight selection from Duke Energy "Halo" (Type L1) in support of the modernized landscape aesthetic proposed. Refer to Duke Energy product data sheet included with appendix. Initial calculations were run based on the standard product with forward throw, 3000K, and nominal 4800 lumen output.

The optic is internally rotatable as offered by the original equipment manufacturer, Cooper Invue. Refer to L1 OEM cut sheet in appendix. By alternating the optic in each pair of lights along the street in the east-west direction, roadway and walkway coverage achieves averages of 1.3FC in the roadway and 1.0 FC on the sidewalk. The fixture itself remains oriented toward the street to preserve the aesthetic organization.

To complement the new modern fixture, replace the existing custom decorative poles with smooth round poles. If it is not practicable to replace the street lights to Type L1 due to pole base pattern incompatibilities, a more traditional light fixture may be selected, subject to approval by the City of Raleigh.

The crosswalks are flanked with two pairs of streetlight poles currently with a significant setback from the curb. These shall be replaced with type L1 by Duke in their current locations. The forward throw will provide sufficient illumination at the crosswalk. However, the existing locations are in conflict with the new walking path. If approved by the City of Raleigh, the light poles shall be relocated perpendicular to the curbline in line with the existing street lights.

Duke Energy has highlighted the potential difficulty of relocating the pole bases given extensive below-grade utilities prompting the suggestion to remove these poles entirely. While this does remedy the physical conflict, the reduction in illumination where higher illumination is indeed required should not be allowed as a matter of safety.

As an alternative it is proposed that during rework of the grade that the bases be replaced along the curb buffer zone with alternative luminaire (Type L2) also at 3000K. This is proposed as a means to accomplish three things:

1. Avoid a recurrent pedestrian-pole conflict
2. Focus higher illumination at the point of interference between pedestrian and vehicular traffic
3. Serve as a way-finding element for pedestrians and also signal motorists

EXCEPTION: The pedestal mounted poles at the courthouse should remain in current location preserving the formality of the courthouse approach.

While the alternative luminaires are not available from Duke Energy as a standard offering, a contract structure can be developed in partnership with the utility to furnish, install, and maintain this equipment to avoid initial costs and provide for more predictable budgeting.



Duke Energy “HALO”



Proposed light column with adjustable optic by BEGA

Streetscape Plan

1.2 Streetscape

1.2.8 Lighting Design

Tree Lighting

Existing in-grade uplights are non-functional and will be removed. Even if they could be properly maintained, the lamping, placement, and lack of aiming make in-grade uplights problematic and present undue uplight and potential light pollution.

To avoid potential clashes with pedestrians and activity zones, the tree planter areas were focused upon for additional options. After exploring options to integrate lighting into the planter bed curbs, the planter beds themselves evolved to open fencing leaving less opportunity for lighting equipment.

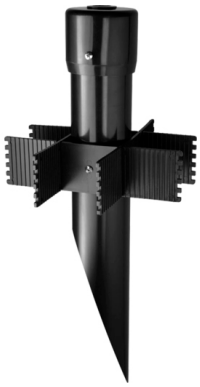
Finally, to re-envision the original intent of accenting the trees and to provide supplemental activity zone lighting, the trees themselves provided the best option. A small accent spot luminaire (Type L3) with the flexibility to mount in various ways is proposed. Color-changing is available for this application. If static white is chosen, the correlated color temperature should also be 3000K to match the pole lights.



Adjustable spot lights by TARGETTI mounted within protective tree fence area (RGBW and static white options)



Sample area with various tree-light mountings depicted









Movable tree mounting accessories, examples



Movable tree mounting accessories, example

Maintenance accessibility and pedestrian in-accessibility need to be balanced per the application with a plan set with Parks for annual maintenance to re-adjust the straps and stakes to accommodate tree growth.

Should the City choose to purchase a small quantity of luminaires for mock-up of one tree, a budget price of $4000 is suitable for a static-white application. $10,000 should be budgeted for color-changing.

Decorative or festive tree lighting installations will remain available to tenants and other stakeholders with appropriate permit application.

Such installations for holidays or other festive occasions which add to the overall ambiance are welcome within key provisions. (1) white light shall be 3000K CCT to match pole lights, (2) equipment must be located to balance the needs for maintenance access and pedestrian in-access. (3) no lighting equipment shall encroach up on the walking path as defined in section 3.2.8, (4) any equipment in the planting beds or bows of the trees needs to be planned in conjunction with Parks for annual maintenance to make adjustments to accommodate tree growth.

General Notes:
Tree lighting options shown in the Streetscape Plan are not requirements, but rather provide technical requirements for when street tree lighting is used along the corridor.

Streetscape Plan

1.2 Streetscape

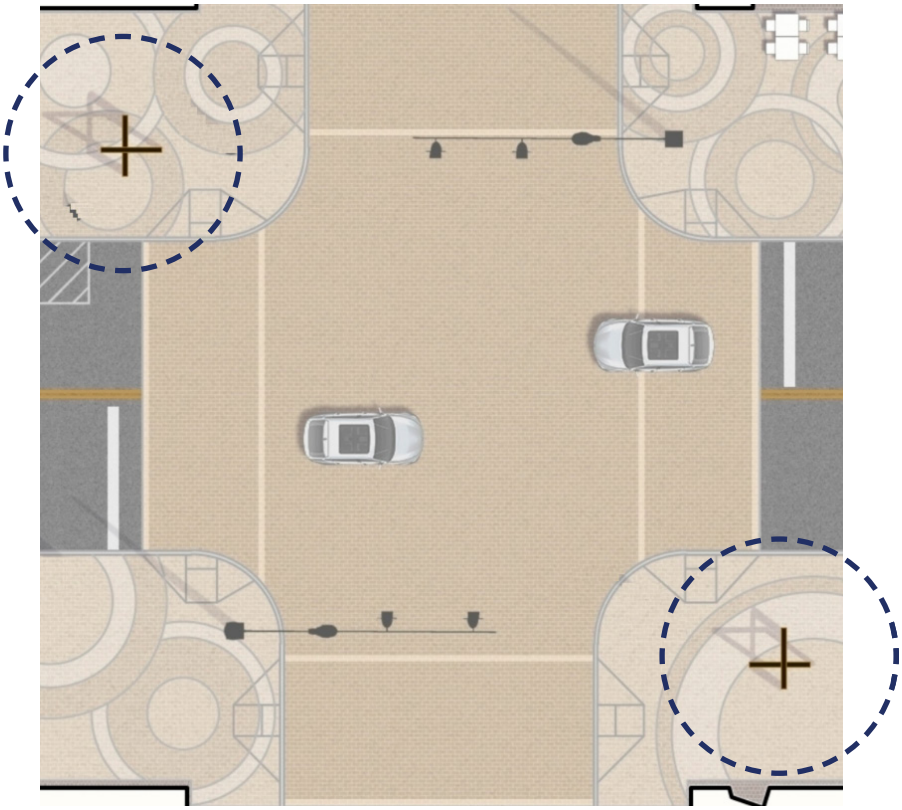
1.2.8 Lighting Design

Wayfinding Portals

Portals fabricated with integrate lighting at minimal adder to include:

1. LED strips behind laser-punched text with contrasting interior finish
2. Aimed LED spot lights with narrow beam to highlight informational text

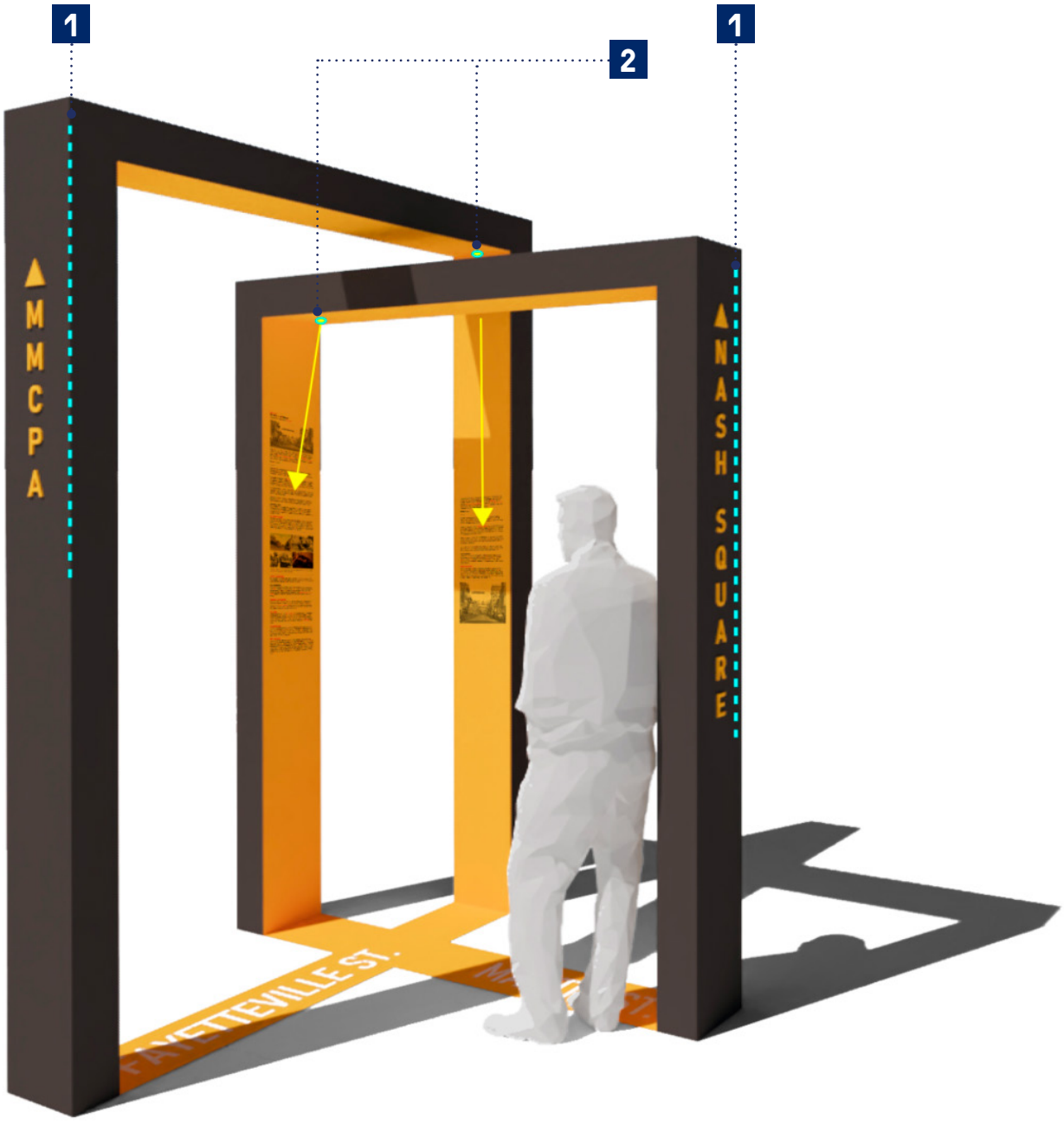
Electrical circuitry can be run later, but adding lights would be difficult and costly later.



Area “C” Typical Intersection



General Notes:
The proposed lighting design for the wayfinding element in only in conceptual design. Additional lighting options would be evaluated as the wayfinding portals are designed.


1
2
1
MMCPA
NASH SQUARE
FAYETTEVILLE ST.

Streetscape Plan

1.2 Streetscape

1.2.9 Engineering Narrative

Kiosks

Nine existing kiosks are located on both sides of Fayetteville Street within the streetscape-improvement limits. Each kiosk currently includes a utility cabinet and an adjacent covered area that houses news racks or trash and recycling bins, all mounted on a concrete pad foundation. These kiosks sit between the curb and the proposed sidewalk dining and amenity zones.

The streetscape plan refines the design and footprint of these kiosks to support wider, more comfortable walking and furnishing zones while maintaining all required utility functions. Modifications will focus on reducing visual and physical bulk and improving integration with the surrounding streetscape. Anticipated changes include removing existing kiosk wall panels and roofs, removing trash and recycling bins from kiosk structures, relocating above-ground electrical equipment to below-grade vaults where feasible, and replacing existing news racks with more compact newspaper and magazine dispensers at selection locations.

The utility cabinet portion of each kiosk contains either traffic signal control equipment or heated and insulated backflow preventer assemblies that serve domestic or irrigation water lines. Where feasible, these cabinets will be replaced with smaller enclosures to reduce overall height and footprint while maintaining all operational and safety requirements. No removal or relocation of traffic signal equipment or backflow preventer is proposed.

Several kiosks currently feature pin-and-sleeve electrical outlets facing Fayetteville Street. The feasibility of removing or relocating these outlets to below-grade vaults will be coordinated with the City of Raleigh during construction document preparation.

Utilities

All existing water and sanitary sewer mains and service laterals within the streetscape limits are owned and maintained by City of Raleigh Water.

Any new or replacement water or sanitary sewer infrastructure required as part of the streetscape improvements will be designed and constructed in accordance with the most current City of Raleigh standards.

- **Domestic & Irrigation Water**
  Domestic water hose bib connections are currently located within many of the existing seat walls along Fayetteville Street. As these seat walls are removed, hose bibs will be relocated to secure lock boxes within proposed planters to maintain functionality while improving organization and aesthetics.

  Existing irrigation service lines and valve boxes may be relocated or extended as needed to support new and expanded planting areas. The streetscape plan does not propose new drinking fountains, decorative fountains, or water play features within Fayetteville Street or City Plaza.
- **Fire Prevention Water**
  No changes are proposed to the

existing fire protection water system. Existing fire water lines, hydrants, and fire department connections will remain in place and will be protected throughout demolition and construction activities.

- Sanitary Sewer
  No modifications are proposed to existing sanitary sewer mains, structures, or service connections. The streetscape improvements do not introduce new sanitary sewer services.

- Grease Traps
  Several existing grease traps were designed as part of the 2006 streetscape design for a city-operated system. The city-operated grease traps are unused, and many have been replaced by privately owned and maintained systems. Any existing, unused grease interception systems should be removed.

Grading
The project does not include significant grading or earthwork. Minor adjustments to finished grades may occur in streetscape areas, intersections, and mid-block crossings due to new pavement installations. Overall, existing roadway and sidewalk grades will be maintained to the greatest extent possible. Any localized elevation changes will have a negligible impact on existing stormwater drainage patterns.

Stormwater Drainage
Proposed stormwater improvements are limited to adding hardscape and landscape area drains where needed to prevent localized ponding within the streetscape and City Plaza. New drains will connect to existing stormwater infrastructure. The project does not result in a significant increase in impervious area within the work limits.

Erosion and Sedimentation Control
During construction, existing storm sewer inlets will be protected to prevent sediment from entering the drainage system. Temporary inlet protection measures will remain in place until demolition, trenching, pavement installation, and pavement restoration activities are complete. Temporary silt fencing may be installed in areas downgradient of demolition and construction activities to filter sediment-laden runoff during rain events. Where required, silt fence outlets will be provided at low points to safely convey runoff without compromising the effectiveness of the fencing.

Streetscape Plan

1.3 Code and Policy Modifications

1.3.2 Existing Sections and Proposed Modification

Unified Development Ordinance

Section	Current Requirement	Modification
Sec. 8.5.5.D. Main Street, Parallel Parking	Width Right-of-way width: 73' Back-of-curb to back-of-curb: 41' Intersections, Face of curb to face of curb for width of cross-street sidewalk: 26'-27' Streetscape Sidewalk (min): 10' Planting area (min): 6' Travelway Parallel parking lane: 8.5' Travel lane: 12' General Walkway type: Sidewalk Planting type: Tree grate Tree spacing: 40' o.c. avg Parking type: Parallel	Width *Right-of-way width: 100'* Back-of-curb to back-of-curb: 41' Intersections, Face of curb to face of curb for width of cross-street sidewalk: 26'-27' *Sidewalk* *Step-Off Zone: 2'-6"* *Activity Zone: 11'* *Walking Zone: 8'* *Business Zone: 8'* *Curb: 6"* *Vehicular Road* Parallel parking lane: 8.5' Travel lane: 12' General *Walking Zone type: Sidewalk* *Planting type: Alternating between metal tree grates and open tree pits with planting* *Tree spacing: Per the streetscape plan, spacing varies* Parking type: Parallel
Sec. 8.5.9.A. Main Street	Frontages Applicable frontages: -SH, -UG, -UL, -GR, -PL Zoning Districts Applicable zoning districts: Mixed use districts Width Streetscape width (max): 35' Streetscape Sidewalk (min): 10' Planting area (min): 6' General Walkway type: Sidewalk Planting type: Tree grate Tree spacing: 40' o.c. avg	Frontages Applicable frontages: -SH, -UG, -UL, -GR, -PL Zoning Districts Applicable zoning districts: Mixed use districts *Sidewalk* *Step-Off Zone: 2'-6"* *Activity Zone: 11'* *Walking Zone: 8'* *Business Zone: 8'* *Curb: 6"* General *Walking Zone type: Sidewalk* *Planting type: Alternating between metal tree grates and open tree pits with planting* *Tree spacing: Per the streetscape plan, spacing varies*

Street Design Manual

Section	Current Requirement	Modification
Sec. 3.2.3 – C Main Street, Parallel or Angular Parking	Width Right-of-way width: 73' Back-of-curb to back-of-curb: 41' Streetscape Sidewalk (min): 10' Planting area (min): 6' Travelway Parallel parking lane: 8.5' Travel lane: 12' General Walkway type: Sidewalk Planting type: Tree grate Tree spacing: 40' o.c. avg Parking type: Parallel	Width *Right-of-way width: 100'* Back-of-curb to back-of-curb: 41' Streetscape *Step-Off Zone: 2'-6"* *Activity Zone: 11'* *Walking Zone: 8'* *Business Zone: 8'* *Curb: 6"* *Vehicular Road* Parallel parking lane: 8.5' Travel lane: 12' General *Walking Zone type: Sidewalk* *Planting type: Alternating between metal tree grates and open tree pits with planting* *Tree spacing: Per the streetscape plan, spacing varies* Parking type: Parallel
Sec. 11.2.2 Sidewalk in the Public Right-of-way, Table 11 Minimum Sidewalk Width and Location	Main Street Parallel Parking Both sides: yes Type: Sidewalk Min. Width: 10'	Main Street Parallel Parking Both sides: yes *Walking Zone Type: Sidewalk* *Width: 8'*
Sec. 11.2.6. Street Furniture	Acceptable Furniture Types a) Bicycle Racks b) Benches c) Parking Meters d) Bus Shelters e) Pedestrian Lighting f) Planters and/or Flower boxes g) Trash Receptacles h) Stormwater flow-through planters i) Rain barrels	Acceptable Furniture Types *Any furnishings as implied by the streetscape plan in addition to those in Sec. 11.2.6 Street Furniture of the Street Design Manual.*

Streetscape Plan

1.3 Code and Policy Modifications

1.3.2 Existing Sections and Proposed Modification

City of Raleigh Tree Manual

Chapter	Current Requirement	Modification
Chapter 2.E.3.c.a.a Tree Grates	a) 4' x 6' gray iron, ADA-compliant b) Tree grates shall have a provision for trunk expansion of the tree, such as pop-out concentric rings in the grate around the trunk. c) No utilities or electrical conduits are permitted within the tree pit or grate. Utilities may run below and through the subsurface root expansion infrastructure.	*a) Metal tree grate or flexible pavement per the streetscape plan* b) Tree grates shall have a provision for trunk expansion of the tree, such as pop-out concentric rings in the grate around the trunk. c) No utilities or electrical conduits are permitted within the tree pit or grate. Utilities may run below and through the subsurface root expansion infrastructure.
Chapter 2.E.3.c.a.d Tree Lawn	1. Minimum 6 feet wide tree lawn. 2. Tree centered in area. 3. 600 cubic feet of high-quality planting soil in the immediate area where tree is to be placed.	*1. Minimum 11 feet wide open tree pit with planting* *2. Tree placement in planter per the streetscape plan.* 3. 600 cubic feet of high-quality planting soil in the immediate area where tree is to be placed.

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PNC
NO TURN ON RED

11. Maintenance and Operations Plan

Maintenance and Operations Plan

2.1 Description

Per the Unified Development Ordinance (UDO), a maintenance plan is required for any non-standard streetscape furnishings and design elements. The maintenance plan detailed below provides a high-level approach for maintenance responsibility for those elements. During project implementation, a memorandum of understanding (MOU) should be developed to detail a thorough listing of responsibilities by each of the City's departments.

Paving Material

1. Sidewalk pavers are the responsibility of the City of Raleigh for routine maintenance, replacement, and repair.
2. Pavers located in the roadway bed to denote crosswalks, midblock crossings, and intersections are the responsibility of the City of Raleigh for routine maintenance, replacement, and repair.
3. *Guidance: The City of Raleigh should purchase attic stock to store for any repairs and replacements as needed.*

Lighting

1. Street lighting is leased by the City of Raleigh from Duke Energy. Duke Energy owns and maintains all street lighting infrastructure. Replacement street lighting shall follow the recommended Duke Energy approved design identified in the Streetscape Plan.
2. Any decorative lighting or tree lighting initiated by the City will be the responsibility of the City of Raleigh and shall be maintained according to any issued permits.
3. Any decorative lighting or tree lighting initiated by a private entity will be the responsibility of the third party and shall be maintained according to any issued permits.
4. Any additional business lighting shall be the responsibility of the third property or business owner and shall be maintained according to any issued permits.

Streetscape Furnishings

1. Street furnishings installed or initiated by the City of Raleigh are the responsibility of the City for routine maintenance, replacement, and repair.
2. Guidance: The City of Raleigh should purchase additional street furniture to be kept in storage as stockpile in the event the furnishings are damaged and need to be replaced.
3. Street furnishings installed by a private entity through the City of Raleigh issued permitting process shall be the responsibility of the third party and shall be maintained according to any issued permits. Furnishings shall not be located within the walking zone and must be in approved locations established through the issued permit. Furnishing types specified in the Streetscape Plan are only permitted for installation.
4. Outdoor dining installed by a private entity through the City of Raleigh issued permitting process shall be the responsibility of the third party and shall be maintained according to any issued permits. Furnishings shall not be located within the walking zone and must be in approved locations established through the issued permit.

Landscaping

1. Landscape plantings installed in the recommended expanded tree pits in the Streetscape Plan are the responsibility of the City of Raleigh for watering, maintenance, and general upkeep.
2. Street trees are the responsibility of the City of Raleigh for routine trimming, pruning, and inspections.
3. Decorative landscaping or planters installed by a private entity through the City of Raleigh issued permitting process will be the responsibility of the third party and shall be maintained according to any issued permits.

Public Art

1. Temporary art shall be maintained by the City of Raleigh for the lifespan of the art piece.
2. Permanent public art designed and installed on behalf of Raleigh Arts is the responsibility of the City of Raleigh and to be maintained and repaired in accordance with the municipal collection standards.

Utilities

1. Publicly accessible utility power and water connections are the responsibility of the City of Raleigh regardless of party responsible for installation. Receptacles installed either by the City of Raleigh or by a private entity through implementation of the Streetscape Plan shall conform to the standards identified in the Streetscape Plan and must be approved by the City of Raleigh.


S COFFEE

III. Phasing Recommendations and Relative Cost

Phasing Recommendations and Relative Cost
3.1 Implementation Strategy and Requirements

This plan will serve as a regulatory document to guide public and private entities undertaking new construction, rehabilitation projects, and activities in the public right of way, with a set of customized standards by which City Staff, the Design Review Commission, Planning Commission, and City Council can review projects. As part of the City's Comprehensive Plan and Unified Development code, these standards will be taken into account in all levels of review, including, but not limited to, site plan review, sign and encroachment permits, outdoor dining/seating and vending, and streetscape plans. This plan ensures predictability in review by setting clear standards but also allows for flexibility in design by allowing designers to respond to surrounding context.

The proposed standards along Fayetteville allow for both an incremental approach to implementation, where improvements along a business storefront can be initiated by the business, or through a larger City of Raleigh backed capital project, where improvements could occur block by block or corridor wide. To set expectations of what is required under each scenario, applicability standards have been developed to establish minimum requirements for adherence to the Streetscape Plan standards.

Applicability Standards

Removal of Existing Infrastructure
The Streetscape Plan promotes the removal of existing infrastructure that limits the activation and constrains business uses along the street. The removal of existing horizontal planters, granite seat walls, and granite planters would not trigger replacing the existing pavers to match the proposed standards in the Streetscape Plan. The replacement pavement to infill the removed infrastructure shall match the existing pavers along the street. Utility hookups removed as part of the granite planters must be replaced with accessible power and water connections, at a minimum equivalent to the existing capacity provided. Removal and replacement of utilities should be coordinated with the City of Raleigh.

Addition of New Streetscape Elements
The installation of new streetscape elements pursuant to the Streetscape Plan would not trigger any additional infrastructure changes, such as removing horizonal planters or updating utilities. Street furniture, decorative lighting or tree lighting, or other activation elements must comply with standards in the applicable section of the Streetscape Plan.

Business Zone Arrangement
Along the entirety of the corridor, the existing streetscape cross-section shall remain in place until a clear eight-foot wide, ADA accessible, Walking Zone located between the Business Zone and Activity Zone is free of any physical elements (such as granite seat walls) that would interfere with the clearance of the pedestrian pathway. An individual business is allowed to implement the new cross-section, which expands the Business Zone to eight feet from the business building line, provided the following standards are met.

- Remove existing horizontal planters, granite seat walls, and granite planters located in the Activity Zone along the frontage of the business. Coordination is required with City of Raleigh

Transportation staff for ROW permit to do this work and to address other impacts to traffic flow and parking.

- Establish a clear eight-foot wide, ADA accessible, Walking Zone along the frontage of the business, including removing any physical elements (such as granite seat walls) that interfere with the pedestrian pathway.
- Install city-issued medallions to delineate the new outdoor seating area and the walking zone.

Block or Corridor-Wide Project

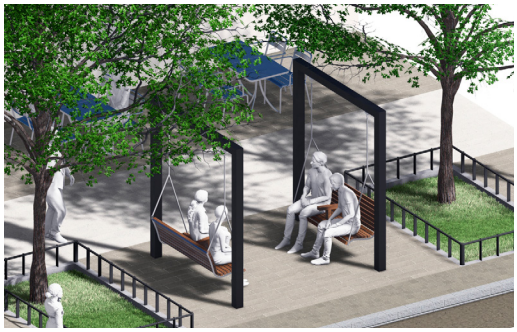
A large-scale capital project that impacts the entirety of a block face shall trigger the full standards of the Streetscape Plan, including new sidewalk pavers and utility configurations.

Phasing Recommendations and Relative Cost

3.2 Phasing Implementation Plan

The recommended phasing plan identified in the Streetscape Plan represents an implementation approach where the City of Raleigh delivers the streetscape design through capital investment. The phased plan is multi-step and prioritizes actions that would increase opportunity for activation to support local businesses and to create visual interest along the corridor.

Phase 0



Early Activations

In November 2024, City Council approved a $1,000,000 budget allocation for a short-term strategy to jumpstart the implementation of the Streetscape Plan. City Council approved City of Raleigh staff to develop a plan to:

- Identify and pilot modifications to targeted horizontal planters to gain space for activation, public art, and outdoor seating.
- Introduce public art designed to create engaging visual experiences within the corridor.
- Identify locations and install new outdoor seating and activation elements.

Detail breakdown:

Replace existing benches with new seating

Install corridor-wide public art and wayfinding

$ 1,000,000

Phase 1



Tactical Streetscape Implementation

The priority of Phase 1 is removing existing streetscape elements that create an obstacle to the full use of the sidewalk space. These include removing the remainder of the horizontal planters and removing the granite seatwalls, both of which would open more usable space along the sidewalk. This phase of work would also reconstruct the larger utility cabinets by scaling down the size of the utility boxes and include public art. Smaller, well-designed, newsracks, previously located in the utility cabinets, would be installed in specific locations along each block. In addition, bike racks and trash receptacles would be refreshed with newer and more color options.

Detail breakdown:

- Remove granite seatwalls
- Refurbish existing utility cabinets and newspaper racks
- Remove horizontal planters
- Install wayfinding and public art
- Replace existing bicycle racks and waste receptacles

$ 3,500,000 (700,000 per block)

Phase 2



Full Streetscape Implementation

The final phase of implementation would be to complete the full streetscape elements outlined in the Streetscape Plan. During this phase, the existing sidewalk pavers would be replaced to introduce the new paving design to correspond with the new sidewalk cross-section, which expands business uses along the storefronts. Street lighting would be updated to a modern design, and the remaining utility infrastructure would be replaced, expanding the usable space along the sidewalk. To denote the significance of the intersections and provide more visible crossings, both the intersections and mid-blocks would also receive the proposed design treatment in the Streetscape Plan.

Detail breakdown:

- Remove granite vertical planters and urns
- Replace existing street lighting and mid-block intersection lighting
- Replace existing sidewalk pavers
- Replace existing utilities and replace with new connections
- Install midblock crossing, crosswalk, and intersection pavers
- Install wayfinding and public art
- Install/coordinate other activation elements in designated areas

$ 12,500,000 (2,500,000 per block)


HOPSCOTCH

IV. Appendices

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L1 - Duke Energy “Halo”

Vehicular Roadway and Pedestrian Zone Illumination

Outdoor Lighting

HALO LED



HALO LED

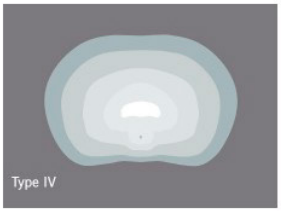
LED (Light-emitting diode)	50 watts
Mounting height	12' – 17'
Color	Black
Pole	Style A Style B Style C Style D Style E Style F

IESNA cutoff classification: Semi-cutoff

Color temperature: 3,000K

FIXTURE	WATTS	LUMENS	PATTERN	BUG RATING
50W Halo	50	4,809	IV	B1-U0-G2

LIGHT DISTRIBUTION PATTERNS



POLE AVAILABLE	MOUNTING HEIGHT	FOUNDATION
Style A	12' – 17'	Direct Bury, Anchor Base
Style B	12' – 17'	Anchor Base
Style C	12' – 17'	Anchor Base
Style D	12' – 17'	Anchor Base
Style E	12' – 17'	Anchor Base
Style F	12' – 17'	Anchor Base

DUKE ENERGY.

BUILDING A SMARTER ENERGY FUTURE®

For additional information, contact us at **ODLCarolinas@duke-energy.com**.

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Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Project		Catalog #		Type	
Prepared by		Notes		Date	



Invue

LXS Luxescape Collection

Decorative Luminaire

Product Features

BAA · BABA · TSN CERTIFIED

Interactive Menu

- Order Information page 3
- Product Specifications page 4
- Control Options page 12
- Optical Distributions page 6
- Mounting Accessories page 10

Product Certifications

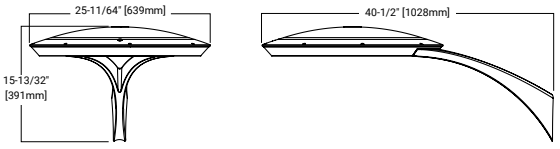
UL CERTIFIED · IP66 · 3G VIB · RoHS COMPLIANT

Quick Facts

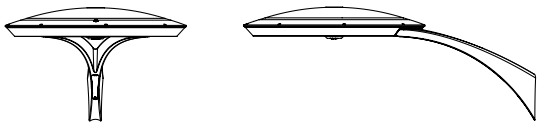
- Contemporary, architectural form in 3 configurations
- WaveStream™ LED technology provides a visually comfortable light source
- Integrated controls options for standalone or connected solutions
- Lumen packages range from 1900 to 11,400 lumens
- Standard output is 4000K CCT with minimum 70 CRI; other options are available
- Perfectly pairs with Invue ARP aluminum round tapered poles

Dimensional and Mounting Details

Arm Mount



Arm Mount with WaveLinx



Weight: 41 lbs. [18.6 kgs.]
EPA: 1.0 Sq. Ft.

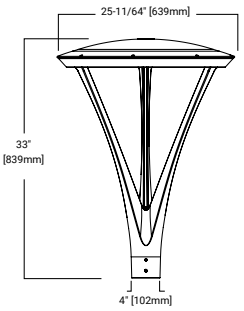
Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

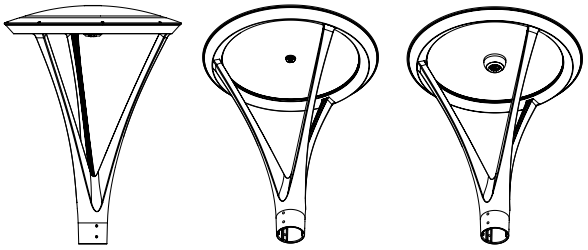
Invue **LXS LuxeScape Collection**

Dimensional and Mounting Details

Spider Mount

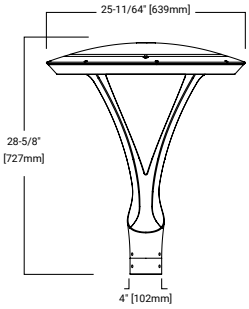


Spider Mount with WaveLinx

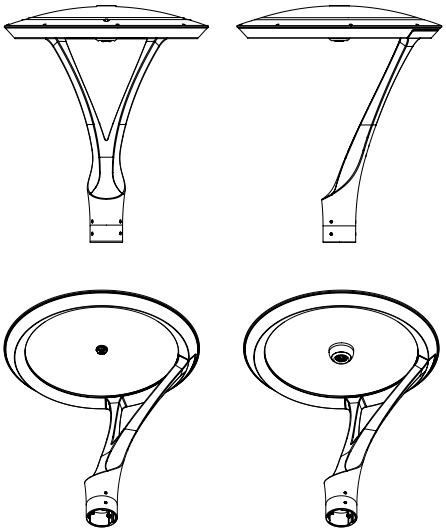


Weight: 53 lbs. [24 kgs.]
EPA: 1.6 Sq. Ft.

Cantilever Mount



Cantilever Mount with WaveLinx



Weight: 46 lbs. [20.8 kgs.]
EPA: 1.3 Sq. Ft.

Technical note: Spider and Canitlever Mount models fit 3" tenons standard. Use accessory ARPA2 to mount to 2-3/8" tenons.

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue — **LXS LuxeScape Collection**

Ordering Information

SAMPLE NUMBER: **LXS-VA3-LED-D1-T2-GM-S**

Product Family [1, 2]	Optic Type	Lumen Package [3]	CRI/CCT	Voltage	Distribution	Mounting	Finish
LXS= LuxeScape Collection **BAA-LXS**= LuxeScape Collection Buy American Act Compliant [34] **BABAF-LXS**=Build America Buy America Act [34]	**VA**= Visual Comfort / WaveStream	**1**= Nominal 2,300 Lumens **2**= Nominal 4,500 Lumens **3**= Nominal 8,500 Lumens **4**= Nominal 9,500 Lumens [4]	**730**= 70 CRI / 3000K **735**= 70 CRI / 3500K **740**= 70 CRI / 4000K **830**= 80 CRI / 3000K **835**= 80 CRI / 3500K **840**= 80 CRI / 4000K **AMB**= Amber 590nm [21, 33]	**U**= 120- 277 **1**= 120 **2**= 208 **3**= 240 **4**= 277 **8**= 480 [5, 6] **9**= 347 [5]	**ASC**= Asymmetric Curbline [7] **ASW**= Asymmetric Wide [8] **AST**= Asymmetric Transverse [9] **SYM**= Symmetric Round [10]	**A**= Arm Mount **S**= Spider Mount **C**= Cantilever Mount	**AP**= Grey **BZ**= Bronze **BK**= Black **DP**= Dark Platinum **GM**= Graphite Metallic **WH**= White **RALXX**= Custom Color [11]

Options (Add as Suffix)	**Accessories** (Order Separately) [19, 35]
F= Single Fuse [12] **FF**= Double Fuse [13] **10MSP**= 10K MOV Surge Protective Device **20MSP**= 20kV MOV Surge Protective Device **20K**= 20kV UL 1449 Fused Surge Protective Device **DIM**= External 0-10V Dimming Leads [14] **HA**= 50°C High Ambient Temperature [15] **VS**= Vandal Shield [16] **CC**= Coastal Construction [17] **DALI**= DALI Driver [18] **BPC**= Button Type Photocontrol [19] **PR**= NEMA 3-PIN Twistlock Photocontrol Receptacle [20] **PR7**= NEMA 7-PIN Twistlock Photocontrol Receptacle [20] **PC**= Twistlock NEMA Photocontrol **LLPC**= Long Life Twistlock NEMA Photocontrol [32] **SC**= Shorting Cap **MS-L08**= Motion Sensor for ON/OFF Operation, Up to 8' Mounting Height [21, 22, 23] **MS-L20**= Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [21, 22, 23] **MS-L40W**= Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [21, 22, 23] **MS/DIM-L08**= Motion Sensor for Dimming Operation, Up to 8' Mounting Height [21, 22, 23] **MS/DIM-L20**= Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [21, 22, 24] **MS/DIM-L40W**= Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [21, 22, 25] **DIM10**= Synapse Integrated Control Module **WLS2WH**= WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting **WLS4WH**= WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting **WPS2WH**= WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [26,27,36] **WPS4WH**= WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [26,27,36]	**FSIR-100**= Wireless Configuration Tool for Occupancy Sensor [28] **ARPA2**= 2-3/8" O.D. Tenon Sleeve Adapter [30] **VA6028-XX**= Twin Mount Arm (EPA 1.36 sq./ft.) [30, 31] **VA6029-XX**= Wall Mount Arm [30, 31] **WOLC-7P-10A**= WaveLinx Outdoor Control Module (7-PIN) [29]

NOTES:

1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Lumens are nominal. See lumen table for more information.
4. 9,500 Lumen package available only on SYM distribution
5. Requires the use of a step-down transformer.
6. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
7. IESNA Type III typical.
8. IESNA Type IV typical.
9. IESNA Type IV typical.
10. IESNA Type V typical.
11. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.
12. Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg.
13. Must specify voltage (208V, 240V, or 480V) to fuse the both hot legs.
14. Low voltage control leads brought out 18" outside fixture. Not available with control options.
15. Not available in VA3 with Type ASC, ASW and AST distributions.
16. Reduce total lumens by a 0.95 multiplier to accommodate losses.
17. Post-coating over the primary finish providing 7,000+ salt spray hours. Extended lead-times can be 4 -10 additional weeks.
18. Only available with VA3 and VA4 lumen packages.
19. Not available with MS-LXX, MS/DIM-LXX, LWR-LW, LWR-LN or 347V or 480V options.
20. Not available with MS-LXX, MS/DIM-LXX, LWR-LW, LWR-LN or 347V or 480V options.
21. Not available with HA option.
22. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative at Cooper Lighting Solutions for more information.
23. Approximately 22' detection diameter at 8' mounting height.
24. Approximately 40' detection diameter at 20' mounting height.
25. Approximately 100' detection diameter at 40' mounting height.
26. Cannot be used in conjunction with photocontrol or other controls systems (BPC, PR, PR7, MS).
27. NWAC Gateway required to enable field-configurability. Order WAC-POE and WPOE-120 (10V to POE injector) power supply if needed. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information.
28. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
29. Requires 7-PIN NEMA twistlock photocontrol receptacle. WOLC-7P-10A cannot be used in conjunction with additional sensors or controls.
30. Not vibration rated at this time. Consult your lighting representative at Cooper Lighting Solutions for more information.
31. Replace XX with color designation.
32. Requires photocontrol receptacle PR or PR7.
33. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package 1. See IES files for photometric performance.
34. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic prefe ence requirements.
35. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
36. Not available with 5LTD option.
37. Not available with 2300 or 9500 lumen package.
38. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. BABAE designates the product will meet the standards set for FHWA. As noted these projects must receive Government Funding by October 1, 2025. BABAF designates the product will meet the standards set for FHWA and FTA. As noted these projects must receive Government Funding by October 1, 2026. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

ARP ORDERING INFORMATION (ALUMINUM DECORATIVE POLE)

SAMPLE NUMBER: **ARP5L310ABZ2**

Product Family	Shaft Size (Inches) [1]	Wall Thickness (Inches)	Pole Top Diameter (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
ARP= Aluminum Round Tapered Decorative **BAA-ARP**= Aluminum Round Tapered Decorative Buy American Act Compliant [36]	**5**= 5"	**L**= 0.156" **M**= 0.188"	**3**= 3" O.D. [2] **6**= 4" O.D. [3]	**10**= 10' **12**= 12' **14**= 14' **16**= 16' **18**= 18' [4] **22**= 22' [4]	**A**= Aluminum (Round 4-Bolt Pole)	**AP**= Grey **BA**= Anodized Bronze **BK**= Black **BZ**= Bronze **CA**= Anodized Clear **DA**= Anodized Black **DP**= Dark Platinum **GM**= Graphite Metallic **GN**= Hartford Green **WH**= White	**2**= 2-3/8" O.D. Tenon (4" Long) **5**= 3" O.D. Tenon (4" Long)	**X**= None	**C**= Convenience Outlet [5] **E**= GFCI Convenience Outlet [5] **G**= Ground Lug **V**= Vibration Dampener [4]

NOTES:

1. All shaft sizes nominal.
2. Provides 3" O.D. pole top suited for Arbor Post Top.
3. Provides 4" O.D. pole top suited for LuxeScape post tops.
4. Vibration damper recommended over 18 feet add suffix "V" to catalog number.
5. Specify outlet location. Receptacle not included, provision only.

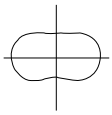
Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

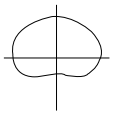
Invue **LXS LuxeScape Collection**

Optical Distributions

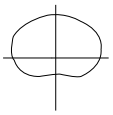
(Arm mount shown, distribution dependent on mounting)



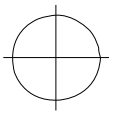
ASC
(Type III typical)



ASW
(Type IV typical)



AST
(Type IV typical)



SYM
(Type V typical)

Product Specifications

Construction
- Die-cast aluminum construction is highly durable and corrosion resistant
- ANSI C136.31 testing compliance prevents damage from installation generated vibration.
- External hardware and casting seams are minimized to enhance appearance.

Optics
- WaveStream™ LED optical system employs waveguide technology to reduce glare and create distributions ideal for pedestrian applications
- Symmetric and asymmetric distributions available
- Standard offering is 4000K CCT with 70CRI. Other CCT and CRI options are available including turtle-safe 590nm amber.

Electrical
- 0-10V dimming compatibility is standard.
- A 10kV surge protector, wired in series, is standard. Other options include 20kV modules and parallel or series configurations.
- Photocontrol receptacles and button photocell options are available

Controls
- Enable energy savings and meet code requirements by including WaveLinx connectivity in LuxeScape fixtures.
- The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol.
- See control options page for more details.

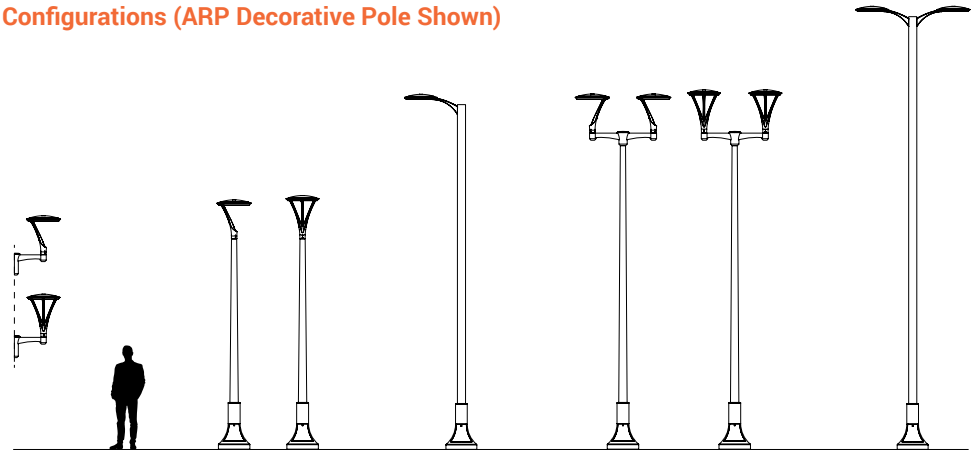
Mounting
- Invue's aluminum round decorative pole (ARP) offering provides a seamless transition and compliments the contemporary design architecture with its unique sleek taper and base design.
- The tenon mount pole comes standard with an access door feature integrated into the base.
- ARM MOUNT: The integrated aluminum contemporary upsweep arm bolts directly to a 4" or 5" round pole using an "N" drill pattern.
- SPIDER & CANTILEVER MOUNT: Fitter assembly mounts over 3" O.D. tenon and can be adapted to a 2-3/8" tenon using accessory ARPA2. It is secured via concealed, corrosion resistant set screw and jam screw pairs in six inconspicuous locations. Fitter design provides seamless transition to 4" O.D. round pole top
- Optional mounting accessories include a twin arm mount and wall mount arm.

Finish
- Premium TGIC based polyester powder coatings provides long service life.
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117).
- RAL and custom color matches available, additional charges and lead-time apply.

Compliance
- cULus certified for -40° to 40°C ambient environments, with high ambient options suitable up to 50°C.
- IP66 rated
- 3G vibration rated
- DarkSky approved for 3000K CCT and warmer
- Domestic preference option available to meet BAA requirements
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams.
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Pole Configurations (ARP Decorative Pole Shown)



Wall Mount Arm
8-10 ft. Mounting heights
(Spider/Cantilever mount only)

Single Post Top
10-18 ft. Mounting heights
(Spider/Cantilever mount only)

Single Mount Arm
18-22 ft. Mounting heights

Twin Mount Arm
18-22 ft. Mounting heights
(Spider/Cantilever mount only)

Twin Mount Arm
18-25 ft. Mounting heights

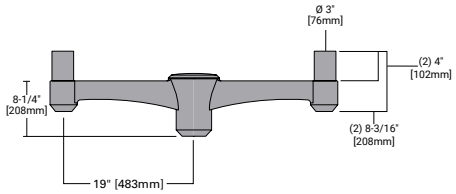
Appendices
4.1 Streetscape Lighting Design
4.1.1 Specifications

Type L1 - Invue Luxescape (OEM)
Vehicular Roadway and Pedestrian Zone Illumination

Invue | **LXS LuxeScape Collection**

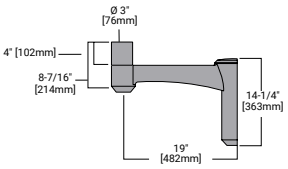
Mounting Configurations

Twin Mount Arm

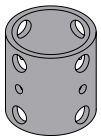


Twin Mount Arm: VA6028-XX
Weight: 18.2 lbs. [8.3 kg]
EPA: 1.36 Sq. Ft.

Wall Mount Arm



Wall Mount Arm: VA6029-XX
Weight: 8.9 lbs. [4.0 kg.]



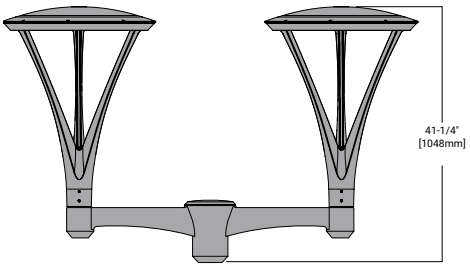
ARPA2*

Mounting Requirements Chart

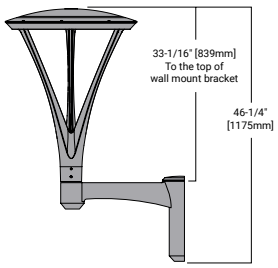
Pole Top O.D. (Inches)	4"	
Tenon O.D. (Inches)	2-3/8" Tenon	3" Tenon
Post Top	ARPA2*	Standard
Twin Mount Arm	ARPA2*	Standard

* Required for stability. Order separately.

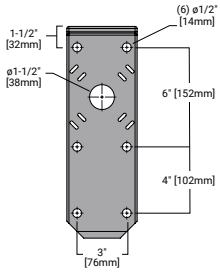
Twin Mount Arm
Shown with Spider mount



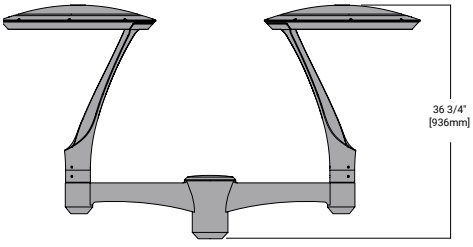
Wall Mount Arm
Shown with Spider mount



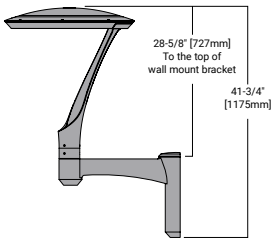
Wall Mount Arm Drill Pattern



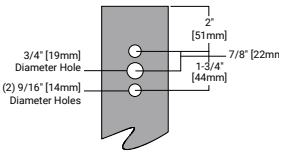
Twin Mount Arm
Shown with Cantilever mount



Wall Mount Arm
Shown with Cantilever mount



TYPE "N"



Energy and Performance Data

Lumen Maintenance

Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 (Hours)**
25°C	0.944	0.904	0.89	0.83	>199,000
40°C	0.946	0.909	0.894	0.839	>212,000
50°C	0.918	0.87	0.852	0.782	>151,000

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1
40°C	0.99
50°C	0.97

Minimum Ambient Temperature

Lumen Package	Temperature
VA1	-40°C
VA2	-35°C
VA3	-35°C
VA4	-40°C
All DALI powered lumen packages	-20°C

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue **LXS LuxeScape Collection**

Optical Distributions

View IES files

Power and Lumens

Lumen Package				VA1	VA2	VA3	VA4
Drive Current							
Power Wattage (Watts)*				24W	48W	96W	99W
Input Current (mA) @ 120V				200	400	800	830
Input Current (mA) @ 277V				90	180	350	360
Power Wattage (Watts)*				28W	55W	114W	108W
Input Current (mA) @ 347V				79	161	325	328
Input Current (mA) @ 480V				58	117	235	237
CRI/CCT (Nominal)	**Mounting**	**Distribution**					
730: 70CRI/3000K	**A: Arm**	**ASC: Asymmetric Curbline**	Lumens	1,949	3,740	6,730	--
			Lumens per Watt	81.2	77.9	68.0	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,323	4,458	8,022	--
			Lumens per Watt	96.8	92.9	81.0	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,400	4,607	8,291	--
			Lumens per Watt	100.0	96.0	83.7	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,485	4,958	9,111	10,571
			Lumens per Watt	118.3	120.9	105.9	110.1
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G3
			IESNA Type	V	V	V	V
	S: Spider Mount	**ASC: Asymmetric Curbline**	Lumens	1,780	3,417	6,148	--
			Lumens per Watt	74.2	71.2	62.1	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,097	4,024	7,242	--
			Lumens per Watt	87.4	83.8	73.2	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,198	4,218	7,590	--
			Lumens per Watt	91.6	87.9	76.7	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,305	4,600	8,452	9,807
			Lumens per Watt	109.8	112.2	98.3	102.2
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G3
			IESNA Type	V	V	V	V

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue — **LXS LuxeScape Collection**

Optical Distributions

View IES files

Power and Lumens

Lumen Package				VA1	VA2	VA3	VA4
CRI/CCT (Nominal)	**Mounting**	**Distribution**					
730: 70CRI/3000K	**C: Cantilever Mount**	**ASC: Asymmetric Curbline**	Lumens	1,857	3,564	6,414	--
			Lumens per Watt	77.4	74.3	64.8	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,213	4,248	7,645	--
			Lumens per Watt	92.2	88.5	77.2	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,324	4,460	8,025	--
			Lumens per Watt	96.8	92.9	81.1	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,342	4,674	8,588	9,965
			Lumens per Watt	111.5	114.0	99.9	103.8
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G3
			IESNA Type	V	V	V	V
740: 70CRI/4000K	**A: Arm**	**ASC: Asymmetric Curbline**	Lumens	2,105	4,040	7,270	--
			Lumens per Watt	87.7	84.2	73.4	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,509	4,816	8,666	--
			Lumens per Watt	104.5	100.3	87.5	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,593	4,977	8,956	--
			Lumens per Watt	108.0	103.7	90.5	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,684	5,356	9,842	11,420
			Lumens per Watt	127.8	130.6	114.4	119.0
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
			IESNA Type	V	V	V	V

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue **LXS LuxeScape Collection**

Optical Distributions

View IES files

Power and Lumens

Lumen Package				VA1	VA2	VA3	VA4
CRI/CCT (Nominal)	Mounting	Distribution					
740: 70CRI/4000K	S: Spider Mount	ASC: Asymmetric Curbline	Lumens	1,923	3,691	6,642	--
			Lumens per Watt	80.1	76.9	67.1	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,265	4,347	7,823	--
			Lumens per Watt	94.4	90.6	79.0	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,374	4,557	8,200	--
			Lumens per Watt	98.9	94.9	82.8	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,490	4,969	9,131	10,595
			Lumens per Watt	118.6	121.2	106.2	110.4
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
			IESNA Type	V	V	V	V
	C: Cantilever Mount	ASC: Asymmetric Curbline	Lumens	2,006	3,850	6,929	--
			Lumens per Watt	83.6	80.2	70.0	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,391	4,589	8,258	--
			Lumens per Watt	99.6	95.6	83.4	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,510	4,818	8,669	--
			Lumens per Watt	104.6	100.4	87.6	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,530	5,049	9,277	10,765
			Lumens per Watt	120.5	123.1	107.9	112.1
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
			IESNA Type	V	V	V	V

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue — **LXS LuxeScape Collection**

Optical Distributions

View IES files

Power and Lumens

Lumen Package				VA1	VA2	VA3	VA4
CRI/CCT (Nominal)	Mounting	Distribution					
830: 80CRI/3000K	A: Arm	ASC: Asymmetric Curbline	Lumens	1,758	3,374	6,072	--
			Lumens per Watt	73.2	70.3	61.3	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,096	4,022	7,238	--
			Lumens per Watt	87.3	83.8	73.1	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,166	4,157	7,480	--
			Lumens per Watt	90.2	86.6	75.6	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,242	4,473	8,220	9,538
			Lumens per Watt	106.8	109.1	95.6	99.4
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2
			IESNA Type	V	V	V	V
	S: Spider Mount	ASC: Asymmetric Curbline	Lumens	1,606	3,083	5,547	--
			Lumens per Watt	66.9	64.2	56.0	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	1,892	3,631	6,534	--
			Lumens per Watt	78.8	75.6	66.0	--
			BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	1,983	3,806	6,848	--
			Lumens per Watt	82.6	79.3	69.2	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,080	4,150	7,626	8,849
			Lumens per Watt	99.0	101.2	88.7	92.2
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G3
			IESNA Type	V	V	V	V

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue **LXS LuxeScape Collection**

Optical Distributions

View IES files

Power and Lumens

Lumen Package				VA1	VA2	VA3	VA4
CRI/CCT (Nominal)	**Mounting**	**Distribution**					
830: 80CRI/3000K	**A: Arm**	**ASC: Asymmetric Curbline**	Lumens	1,675	3,216	5,787	--
			Lumens per Watt	69.8	67.0	58.5	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	1,997	3,833	6,897	--
			Lumens per Watt	83.2	79.9	69.7	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,096	4,024	7,241	--
			Lumens per Watt	87.3	83.8	73.1	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		SYM: Symmetric Round	Lumens	2,113	4,217	7,748	8,991
			Lumens per Watt	100.6	102.9	90.1	93.7
			BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G3
			IESNA Type	V	V	V	V

Appendices

4.1 Streetscape Lighting Design

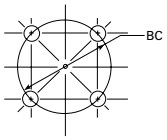
4.1.1 Specifications

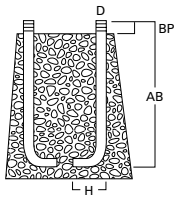
Type L1 - Invue Luxescape (OEM)

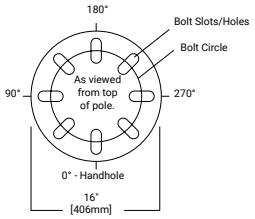
Vehicular Roadway and Pedestrian Zone Illumination

Invue **LXS LuxeScape Collection**

Anchorage Data

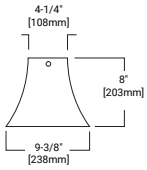






Anchor Base Detail

Access Door



Tenon O.D. (Inches)	Anchor Bolt and Template Package	Shaft Diameter (inches)	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)	Template Only
Aluminum Round Decorative Pole (ARP)	317AVE30	4 x 5	9	4	3/4 x 17	407040D

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			BC	BP	B	AB[1]		80 mph	90 mph	100 mph	
10	ARP5L310A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	57	20.0	17.5	14.1	120
10	ARP5L610A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	57	17.0	13.3	10.7	120
12	ARP5L312A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	62	18.2	14.1	11.2	120
12	ARP5L612A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	62	14.1	10.9	8.7	120
14	ARP5L314A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	67	14.8	11.4	9.0	120
14	ARP5L614A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	67	11.7	9.0	7.1	120
16	ARP5L316A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	72	12.0	9.1	7.0	120
16	ARP5L616A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	72	9.4	7.1	5.6	120
18	ARP5L318A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	77	9.5	7.1	5.4	120
18	ARP5L618A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	77	7.6	5.6	4.3	120
18	ARP5M618A	0.188	9.0	3.5	5 X 4	3/4 X 17 X 3	83	9.5	7.1	5.6	120

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			BC	BP	B	AB[1]		80 mph	90 mph	100 mph	
10	ARP5L310A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	57	19.6	15.3	12.3	120
10	ARP5L610A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	57	17.0	13.3	10.7	120
12	ARP5L312A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	62	16.1	12.5	9.9	120
12	ARP5L612A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	62	14.1	10.9	8.7	120
14	ARP5L314A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	67	13.2	10.1	8.0	120
14	ARP5L614A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	67	11.7	9.0	7.1	120
16	ARP5L316A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	72	10.6	8.0	6.2	120
16	ARP5L616A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	72	9.4	7.1	5.6	120
18	ARP5L318A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	77	8.5	6.4	4.8	120
18	ARP5L618A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	77	7.6	5.6	4.3	120
18	ARP-5M618A	0.188	9.0	3.5	5 X 4	3/4 X 17 X 3	83	9.5	7.1	5.6	120

Type L1 - Invue Luxescape (OEM)

Vehicular Roadway and Pedestrian Zone Illumination

Invue **LXS LuxeScape Collection**

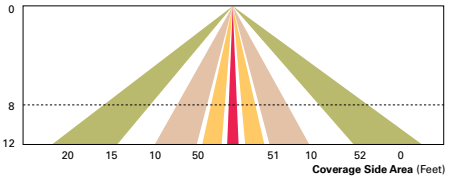
Control Options

0-10V: 0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

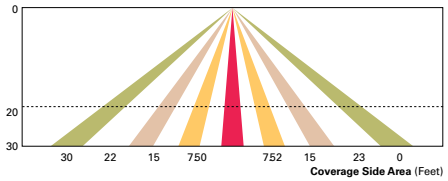
Photocontrol (PER and PER7): Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (MS): These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (/DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation is selected, the luminaire will turn off after five minutes of no activity. These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". Note: For MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

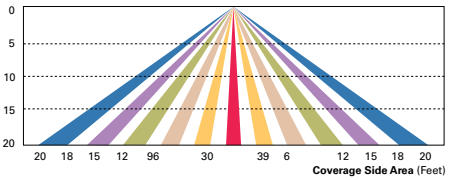
For mounting heights up to 8' (-L12)



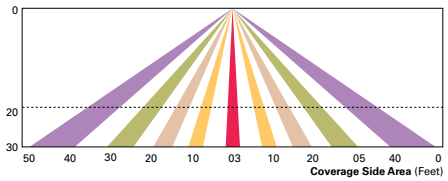
For mounting heights from 12' to 30' (-L30)



For mounting heights from 9' to 20' (-L20)



For mounting heights from 21' to 40' (-L40W)



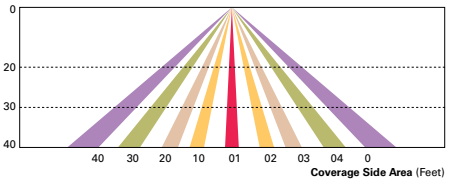
WaveLinx Wireless Control and Monitoring System

Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

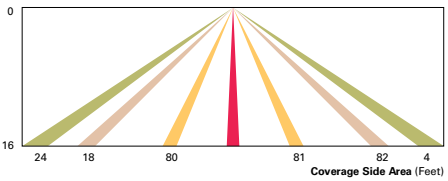
For mounting heights from 16' to 40' (WPS)



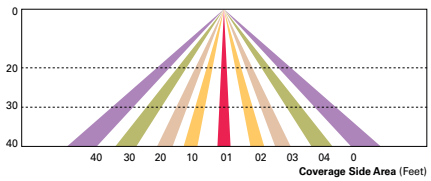
Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



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Specifications and dimensions
subject to change without notice.

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L2 - Bega 99075 Building Element - Adj

ALTERNATE: Crosswalks

Building element · Adjustable **BEGA**

Type:
BEGA Product:
Project:
Modified:

Application
Light building elements are luminous design features for public areas. They are ideally suited for delineating and structuring interior and exterior spaces such as landscape areas, plazas, building entrances, and atria. An internal mechanism allows the optical system to be adjusted in steps from 0°, 15° and 30° on either side of the luminaire.

Materials
Clear safety glass
Die-cast aluminum
Extruded aluminum
Marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Integral surge protector
Galvanized steel anchorage
Pure anodized aluminum reflector

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65

Weight: 179.7 lbs.

EPA (Effective projection area): 17.6 sq. ft.

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	50.6 W
System wattage	57.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	2370 lm
LED service life (L70)	60000 hrs

LED color temperature
☐ 4000K (K4)
☐ 3500K (K35)
☐ 3000K (K3)
☐ 2700K (K27)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL, custom, and premium colors provided in polyester powder and/or liquid paint.

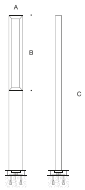
Available colors
☐ Black (BLK)
☐ Silver (SLV)
☐ RAL:
☐ Bronze (BRZ)
☐ White (WHT)
☐ CUS:

Available options

☐ 347V	347V input
☐ CUS	Custom finish
☐ FSC	Fusing
☐ MGU	Marine grade undercoat
☐ RAL	RAL Classic, matte finish

Included (available for pre-shipment)

☐ B79814	Anchorage kit





Building element · Adjustable

	LED	A	B	C
B99075	50.6 W	15 3/4	85 1/2	177 5/8

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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Updated 02/27/26

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4.1.1 Specifications

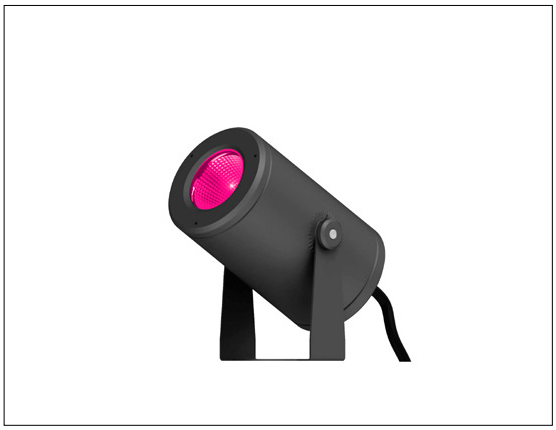
Type L3 - Targetti Dart Round Small (RGBW)

Activity Zones

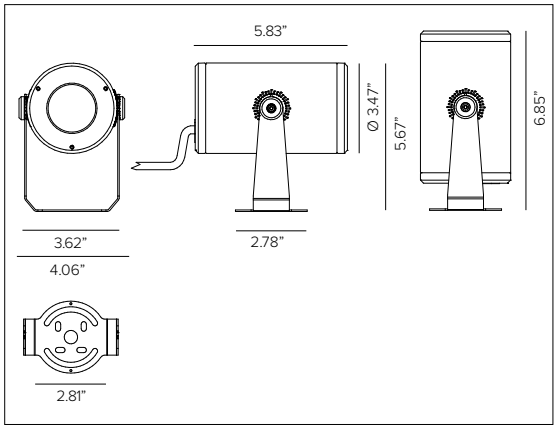
TARGETTI

DART ROUND SMALL RGBW

Professional Small Scale Adjustable Dynamic Color Changing Projector Floodlight



DART ROUND SMALL RGBW Shown in Ferrite Dark Grey finish.



Marine[A] RoHS3 IP66 cULus Class2

CONCEPT

Small footprint fully adjustable LED projector with high intensity RGBW LED's for dynamic color changing illumination.

MECHANICAL CHARACTERISTICS

Dimensions	3.47"Dia x 4.06"W
Materials	Die-cast aluminum powder coated body and joints for maximum heat dissipation. Tempered extra clear glass lens. Marine Grade cataphoresis[A] available as optional.
Finish	Textured finish. Ferrite Dark Grey · Heritage Brown · Bronze Black · White · Sandstone Grey
Power Connection	Direct burial 20-8, 4 conductor lead cable with quick disconnect in 10ft / 25ft / 50ft lengths, see required options.
Functionality	Adjustable up to ±60° on the horizontal plane with slotted mounting base and +90°/-45° on the vertical plane with aim locking set screw.
Mounting	Fixture can be installed directly to mounting surface or used with optional mounting installation accessories.
Weight	2.2lbs
EPA	0.17 *Includes Cd drag coefficient of 1.53. Does NOT include any optical accessories.*
Protection	IP66
Impact	IK10

CERTIFICATIONS

cULus Class 2 Wet Location Listed.
Tested in accordance with LM-79-08.
Compliant with California energy regulations.
IEC 62471.
RoHS3 EU 215/863

WARRANTY

5 year limited warranty

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 power supply with DMX/RGBW interface required, see available options. Refer to Targetti Onsite Services for additional programing and installation support.
Wattage	11W / 4Ch
Voltage	850mA @ 3-4V DC per channel
Ambient Temp.	-25°C / +35°C (95°F)

SOURCE

High efficiency single RGBW LED quad chip.

TM30	***CCT (Nominal)***	***SDCM***
	RGBW 6500K	2

OPTIC

Equipped with precision methacrylate lens and spread filter.

Beam		***NSP 10°***	***SP 17°***	***FL 31°***	***MWFL 44°***
Delivered Lumens	***RED***	92Lm	85Lm	84Lm	82Lm
	GREEN	166Lm	154Lm	151Lm	147Lm
	BLUE	32Lm	30Lm	29Lm	29Lm
	6500K	250Lm	231Lm	226Lm	221Lm
	RGB	236Lm	219Lm	214Lm	209Lm
	RGBW	455Lm	421Lm	413Lm	403Lm
Efficacy		40Lm/W max. Refer to photometric graphs for specific values.			
Lifetime		L80/B10 60,000hrs at max TA +25°C			
Photobiological Classification		Low risk safety RG1			

Type L3 - Targetti Dart Round Small (RGBW)
Activity Zones

TARGETTI

DART ROUND SMALL RGBW

SPECIFICATION INFORMATION

DRS						/	/	/	/	/	
1	2	3	4	5	6	7	8	9	10	11	12

Ex: DRSRPFEL1SPRGBW / DX8PLEAD10 / PS041

OPTIONAL — REQUIRED — OPTIONAL

1 - PRODUCT CODE	2 - DRIVER	3 - FINISH	4 - WATTAGE	5 - OPTIC	6 - KELVIN	7 - OPTIONAL
DRS — DART ROUND SMALL	**RP** – Remote Driver	**FE** — Ferrite Dark Grey **HB** — Heritage Brown **BZ** — Bronze **WT** — White **BT** — Black **SG** — Sandstone Grey **RAL** — Custom RAL	**L1** – 11W	**NS** – NSP 10° **SP** — SP 17° **FL** — FL 31° **MW** — MWFL 44°	**RGBW** – RGBW	**MG** [A] – Marine Grade

8 - LEAD CABLE	9 - POWER SUPPLY	10 - CONTROL	11 - OPTICAL ACCESSORIES	12 - INSTALLATION ACCESSORIES
Lead Cable *See section for details*	DMX Power Supply *See section for details*	DMX Controller *See section for details*	Filter Holder Ring *See section for details* Blade Light Linear Spread Lens *See section for details* Anti-glare Louver *See section for details* Asymmetric Snoot *See section for details*	Rotational Bracket *See section for details* Earth spike *See section for details* Back Plate *See section for details*

[A] Marine Grade is recommended for use in environments with occasional exposure to salt air, reclaimed water, fertilizers, chemical cleaners, or frequent pressure washing (steam) cleaning. Fixture housing complete with marine grade cataphoresis suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

Appendices
4.1 Streetscape Lighting Design
4.1.1 Specifications

Type L3 - Targetti Dart Round Small (RGBW)
Activity Zones

TARGETTI

DART ROUND SMALL RGBW

8 - LEAD CABLE (REQUIRED)



Direct burial 20-8 lead cable with IP68 quick disconnect.			
Length	10ft	25ft	50ft
Part No.	**DX8PLEAD10**	**DX8PLEAD25**	**DX8PLEAD50**

9 – POWER SUPPLY (REQUIRED)

STANDALONE							
Part No.	*Wattage*	*Control*	*Dim Range*	*In / Out Voltage*	*Certification*	*Dimensions (Standalone)*	*Description*
PS041 *1 fixture max per driver*	50W 850mA 4 Chan	DMX / RDM *1 fixture max*	0%	Universal 120-277V AC	UR Class 2	6.00" x 3.00" x 1.20"	EldoLED POWERdrive 561/A1 Class 2 Power Supply, side feed only. **UL listed enclosure provided by others.**

10 – CONTROL (OPTIONAL)

Part No.		*Channels*	*Scenes*	*Zones*	*Rating*	*Voltage*	*Certification*	*Dimensions*	*Description*
TGDMXSLESAU9		256	20	1	Indoor	5.5V DC	ETL, UL	5.3"W x 5.5"H x 1.9D	Nicolaudie Slesa smart DMX 1/2 universe programmable controller with easy to use software interface.
TGDMXSLESAU11		1024	99	5	Indoor	5VDC 120V AC *Plug in power supply included*	ETL	6.3" x 3.6" x 1.8"	Nicolaudie Slesa smart DMX interface, 2 DMX 512 universes, intuitive backlit keyboard programmable controller with easy to use software interface.
TGDMXSTICKDE3B		1024	500	10	Indoor	6-7V DC 120V AC *Plug in power supply included*	ETL	5.8" x 4.2" x 0.5"	Nicolaudie intelligent control keypad with glass touch sensitive graphic display, stand-alone DMX 512, 2 universe programmable controller with easy to use software interface. Black finish.
TGDMXSTICKDE3W		1024	500	10	Indoor	6-7V DC 120V AC *Plug in power supply included*	ETL	5.8" x 4.2" x 0.5"	Nicolaudie intelligent control keypad with glass touch sensitive graphic display, stand-alone DMX 512, 2 universe programmable controller with easy to use software interface. White finish.

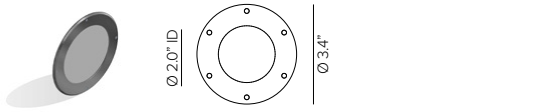
Type L3 - Targetti Dart Round Small (RGBW)
Activity Zones

TARGETTI

DART ROUND SMALL RGBW

EXTERNAL OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO ACCESSORIES PER FIXTURE.



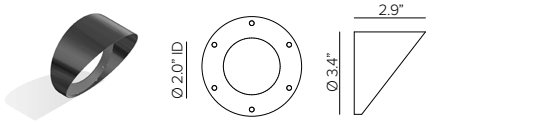
Blade Light Linear Spread Lens. PMMA holographic filter.

Part No. **1E4002 (*)**



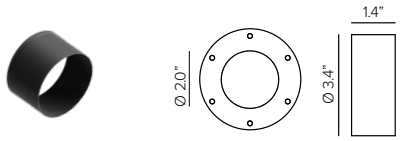
Anti glare louver with internal baffles for glare control. Powder coat stainless steel. Cutoff 103°. **Not compatible with 1E4003, 1E4004 or 1E4057.**

Part No. **1E4005 (*)**



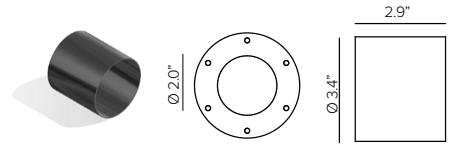
Asymmetric snoot. Powder coated stainless steel. Cutoff 53°. **Not compatible with 1E4004, 1E4005 or 1E4057.**

Part No. **1E4003 (*)**



Symmetric snoot. Powder coated stainless steel. Cutoff 109°. **Not compatible with 1E4003, 1E4005 or 1E4057.**

Part No. **1E4004 (*)**



Symmetric super snoot. Powder coated stainless steel. Cutoff 53°. **Not compatible with 1E4003, 1E4004 or 1E4005.**

Part No. **1E4057 (*)**

Ferrite Dark Grey *(Default)* · Heritage Brown (**HB**)* · Bronze (**BZ**)* · White (**WT**)* · Black (**BT**)* · Sandstone Grey (**SG**)*

Add suffix to end of number to identify finish (EX. 1E3015HB)

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L3 - Targetti Dart Round Small (RGBW)

Activity Zones

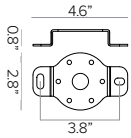
TARGETTI

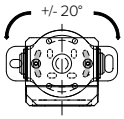
DART ROUND SMALL RGBW

INSTALLATION ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE ACCESSORY PER FIXTURE



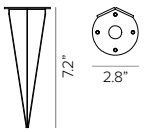




Rotational bracket for surface installation. Powder coated stainless steel.

Part No. **1E3015 (*)**

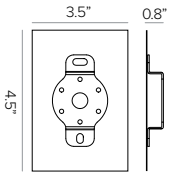


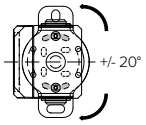


Earth spike. Powder coated stainless steel.

Part No. **1E3016 (*)**







Back plate with rotational bracket for wall mount installation. Powder coated stainless steel with Neoprene black foam. Included with 1E3015 and factory attached Stainless Steel black oxide bolts and locking nuts.

Part No. **1US3015 (*)**

Ferrite Dark Grey *(Default)* | Heritage Brown (**HB**)* | Bronze (**BZ**)* | White (**WT**)* | Black (**BT**)* | Sandstone Grey (**SG**)*

Add suffix to end of number to identify finish (EX. 1E3015HB)

Type L3 - Targetti Dart Round Small (RGBW)
Activity Zones

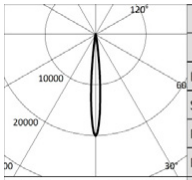
TARGETTI

DART ROUND SMALL RGBW

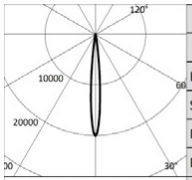
PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

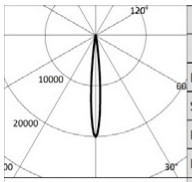
NARROW SPOT



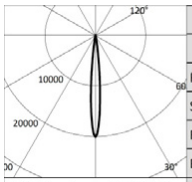
RED		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	2W	1	0.18	2128
Source Flux	106lm	2	0.35	532
Fixture Flux	92lm	3	0.53	236
Efficacy	40lm/W	4	0.71	133
TS1664 Imax=20066cd/klm	Imax 2128cd	5	0.88	85



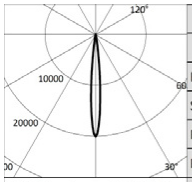
GREEN		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	3W	1	0.18	3834
Source Flux	191lm	2	0.35	958
Fixture Flux	166lm	3	0.53	426
Efficacy	50lm/W	4	0.71	240
TS1664 Imax=20066cd/klm	Imax 3834cd	5	0.88	153



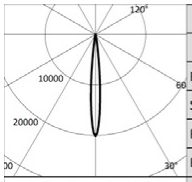
BLUE		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	3W	1	0.18	747
Source Flux	37lm	2	0.35	187
Fixture Flux	32lm	3	0.53	83
Efficacy	11lm/W	4	0.71	47
TS1664 Imax=20066cd/klm	Imax 747cd	5	0.88	30



6500K		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	3W	1	0.18	5754
Source Flux	287lm	2	0.35	1438
Fixture Flux	250lm	3	0.53	639
Efficacy	81lm/W	4	0.71	360
TS1664 Imax=20066cd/klm	Imax 5754cd	5	0.88	230



RGB		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	7W	1	0.18	5445
Source Flux	271lm	2	0.35	1361
Fixture Flux	236lm	3	0.53	605
Efficacy	36lm/W	4	0.71	340
TS1664 Imax=20066cd/klm	Imax 5445cd	5	0.88	218



RGBW		H(m)	D(m)	Emax(lx)
-			10°	
Fixture Power	11W	1	0.18	10482
Source Flux	522lm	2	0.35	2621
Fixture Flux	455lm	3	0.53	1165
Efficacy	40lm/W	4	0.71	655
TS1664 Imax=20066cd/klm	Imax 10482cd	5	0.88	419

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L3 - Targetti Dart Round Small (RGBW)

Activity Zones

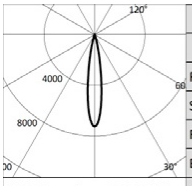
TARGETTI

DART ROUND SMALL RGBW

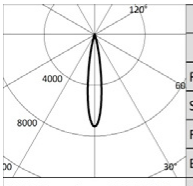
PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

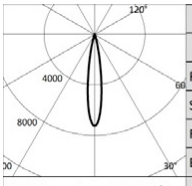
SPOT



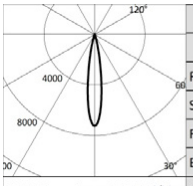
RED		H(m)	D(m)	Emax(lx)
-			17°	
Fixture Power	2W	1	0.29	766
Source Flux	106lm	2	0.59	192
Fixture Flux	85lm	3	0.88	85
Efficacy	37lm/W	4	1.18	48
TS1665 Imax=7227cd/klm	Imax 766cd	5	1.47	31



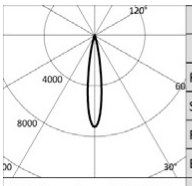
GREEN		H(m)	D(m)	Emax(lx)
-			17°	
Fixture Power	3W	1	0.29	1381
Source Flux	191lm	2	0.59	345
Fixture Flux	154lm	3	0.88	153
Efficacy	47lm/W	4	1.18	86
TS1665 Imax=7227cd/klm	Imax 1381cd	5	1.47	55



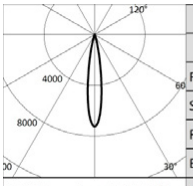
BLUE		H(m)	D(m)	Emax(lx)
-			17°	
Fixture Power	3W	1	0.29	269
Source Flux	37lm	2	0.59	67
Fixture Flux	30lm	3	0.88	30
Efficacy	10lm/W	4	1.18	17
TS1665 Imax=7227cd/klm	Imax 269cd	5	1.47	11



6500K		H(m)	D(m)	Emax(lx)
-			17°	
Fixture Power	3W	1	0.29	2072
Source Flux	287lm	2	0.59	518
Fixture Flux	231lm	3	0.88	230
Efficacy	74lm/W	4	1.18	130
TS1665 Imax=7227cd/klm	Imax 2072cd	5	1.47	83



RGB		H(m)	D(m)	Emax(lx)
-			17°	
Fixture Power	7W	1	0.29	1961
Source Flux	271lm	2	0.59	490
Fixture Flux	219lm	3	0.88	218
Efficacy	33lm/W	4	1.18	123
TS1665 Imax=7227cd/klm	Imax 1961cd	5	1.47	78



RGBW		H(m)	D(m)	Emax(lx)
-			17°	
Fixture Power	11W	1	0.29	3775
Source Flux	522lm	2	0.59	944
Fixture Flux	421lm	3	0.88	419
Efficacy	37lm/W	4	1.18	236
TS1665 Imax=7227cd/klm	Imax 3775cd	5	1.47	151

Type L3 - Targetti Dart Round Small (RGBW)
Activity Zones

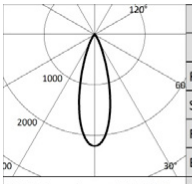
TARGETTI

DART ROUND SMALL RGBW

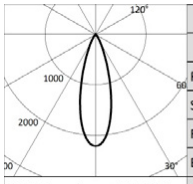
PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

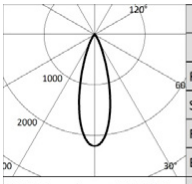
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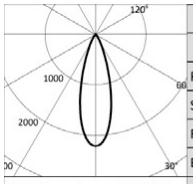
RED		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	2W	1	0.55	234
Source Flux	106lm	2	1.11	58
Fixture Flux	84lm	3	1.66	26
Efficacy	36lm/W	4	2.21	15
TS1666 Imax=2205cd/klm	Imax 234cd	5	2.77	9



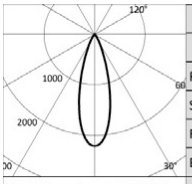
GREEN		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	3W	1	0.55	421
Source Flux	191lm	2	1.11	105
Fixture Flux	151lm	3	1.66	47
Efficacy	46lm/W	4	2.21	26
TS1666 Imax=2205cd/klm	Imax 421cd	5	2.77	17



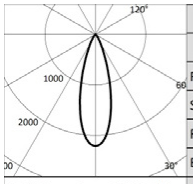
BLUE		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	3W	1	0.55	82
Source Flux	37lm	2	1.11	21
Fixture Flux	29lm	3	1.66	9
Efficacy	10lm/W	4	2.21	5
TS1666 Imax=2205cd/klm	Imax 82cd	5	2.77	3



6500K		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	3W	1	0.55	632
Source Flux	287lm	2	1.11	158
Fixture Flux	226lm	3	1.66	70
Efficacy	73lm/W	4	2.21	40
TS1666 Imax=2205cd/klm	Imax 632cd	5	2.77	25



RGB		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	7W	1	0.55	598
Source Flux	271lm	2	1.11	150
Fixture Flux	214lm	3	1.66	66
Efficacy	32lm/W	4	2.21	37
TS1666 Imax=2205cd/klm	Imax 598cd	5	2.77	24



RGBW		H(m)	D(m)	Emax(lx)
-			31°	
Fixture Power	11W	1	0.55	1152
Source Flux	522lm	2	1.11	288
Fixture Flux	413lm	3	1.66	128
Efficacy	36lm/W	4	2.21	72
TS1666 Imax=2205cd/klm	Imax 1152cd	5	2.77	46

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Type L3 - Targetti Dart Round Small (RGBW)

Activity Zones

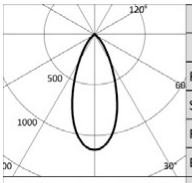
TARGETTI

DART ROUND SMALL RGBW

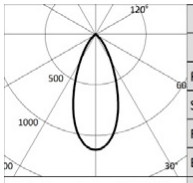
PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

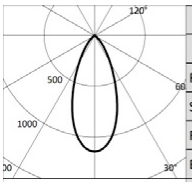
MEDIUM WIDE FLOOD



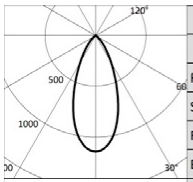
RED		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	2W	1	0.80	121
Source Flux	106lm	2	1.60	30
Fixture Flux	82lm	3	2.40	13
Efficacy	36lm/W	4	3.19	8
TS1667 Imax=1140cd/klm	Imax 121cd	5	3.99	5



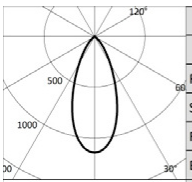
GREEN		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	3W	1	0.80	218
Source Flux	191lm	2	1.60	54
Fixture Flux	147lm	3	2.40	24
Efficacy	45lm/W	4	3.19	14
TS1667 Imax=1140cd/klm	Imax 218cd	5	3.99	9



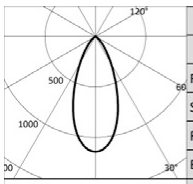
BLUE		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	3W	1	0.80	42
Source Flux	37lm	2	1.60	11
Fixture Flux	29lm	3	2.40	5
Efficacy	10lm/W	4	3.19	3
TS1667 Imax=1140cd/klm	Imax 42cd	5	3.99	2



6500K		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	3W	1	0.80	327
Source Flux	287lm	2	1.60	82
Fixture Flux	221lm	3	2.40	36
Efficacy	71lm/W	4	3.19	20
TS1667 Imax=1140cd/klm	Imax 327cd	5	3.99	13



RGB		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	7W	1	0.80	309
Source Flux	271lm	2	1.60	77
Fixture Flux	209lm	3	2.40	34
Efficacy	32lm/W	4	3.19	19
TS1667 Imax=1140cd/klm	Imax 309cd	5	3.99	12



RGBW		H(m)	D(m)	Emax(lx)
-			44°	
Fixture Power	11W	1	0.80	596
Source Flux	522lm	2	1.60	149
Fixture Flux	403lm	3	2.40	66
Efficacy	35lm/W	4	3.19	37
TS1667 Imax=1140cd/klm	Imax 596cd	5	3.99	24

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Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Outdoor Power Pedestal

legrand®

WIREMOLD®

Outdoor Power Pedestal



Outdoor Power Pedestals offer new versatility to outdoor power applications

Provide Higher Power to Outdoor Locations

Designed to be used for high amperage outdoor applications, the Outdoor Power Pedestal can accommodate 15 to 60 amp devices. The pedestal is a durable solution to providing facility power to outdoor environments and applications such as food trucks, events or maintenance equipment. There are several configurations depending on the application requirements, including 1-gang, 2-gang or pin & sleeve device plates. Select configurations also include a hinged in-use cover that can be locked to prevent unauthorized access.

Features & Benefits

- **Provides standard power for facilities:** Can accommodate up to (2) 15-20A weather-resistant devices that can be used with the integrated while-in-use cover or any 3rd party while-in-use cover available for a 1 or 2 gang opening.
- **Provides higher amp power for facilities:** Pedestals can also accommodate higher 30-60A NEMA and CS devices. Higher amp devices that are watertight can be mounted directly to the pedestal while all others must use an appropriate weatherproof cover.
- **Pin and Sleeve Devices:** Standard Pin and Sleeve plate supports 30A Pass & Seymour Pin and Sleeve devices. **Note:** Pin and Sleeve devices do not have standard mounting hole locations, custom plates may be needed for other brands and/or amperages.
- **Height Options of 16" or 30":** Choose from two different height options to best meet the needs of your application.
- **Hinged cover with locking tab:** Cover closes automatically to meet while-in-use requirements for 15 and 20 amp devices and provides capability to lock cover when not in use to prevent unauthorized access.
- **Outdoor-rated construction:** Sheet metal form designed for durability in outdoor locations. UL listed to NEMA 3R requirements to ensure optimal performance.
- **Durable, premium finishes:** Available in two outdoor-rated finishes to complement your space design. Choose from black or silver to perfectly match your project.
- **UL Listed:** Standard 1773.
- **1 & 2 Gang Options:** Available in single or dual gang options with select configurations of dual gang including an internal divider for power and low voltage applications.

Vertical Markets

- **Commercial**
- **Entertainment**
- **Hospitality**
- **Parks**
- **Transit**

Compliance

c UL us

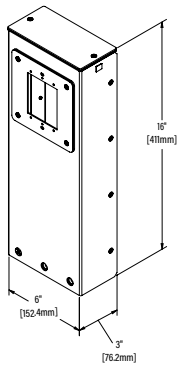
CULus Listed, File Number E479489, Guide PUPR
Outdoor Power Pedestals are UL Listed to meet NEMA 3R requirements for use in outdoor locations.
Outdoor Power Pedestals comply with ADA guidelines.

Outdoor Power Pedestal

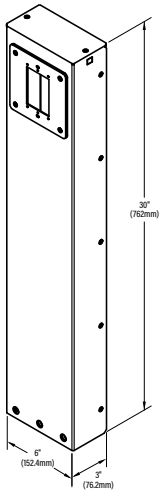
WIREMOLD®
Outdoor Power Pedestal

Outdoor Power Pedestal Ordering Information

Catalog No./Item	Description / Specifications
XPP1G30-BK **XPP1G30-SV** **XPP1G16-BK** **XPP1G16-SV**	**Outdoor Power Pedestal, 1-Gang Device Plate –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. Single gang device plate allows for mounting of devices. For 15-20A devices, weather-resistance devices must be used with an in-use cover. Devices that are 30-60A must be water-tight or fitted with a suitable weatherproof cover. Available in standard 30" (XPP1G30) or 16" (XPP1G16) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA** **Suggested Pass & Seymour While-In-Use Covers** WIUC10SX - Standard Depth WIUCAST1 - Cast Cover WIUC10FRED - Extra Heavy Duty **Suggested Pass & Seymour Weatherproof Covers** CA8-XX: Duplex Cover CA26-XX: Decora Cover CA721-X: 1.625" CA725-X: 1.750" CA723-X: 2.125" WPG1: Flip lid 15A Turn lock WPG2: Flip Lid 20/30A Turn lock 7425: Flip Lid 20/30A Turn lock 7770: Flip Lid 50A Turn Lock

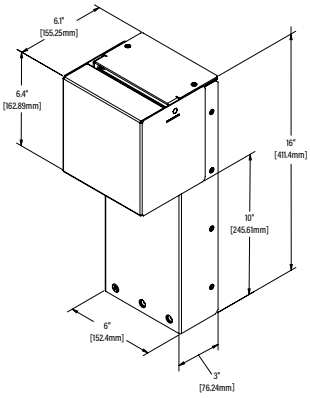


XPP1G16 (16"H)

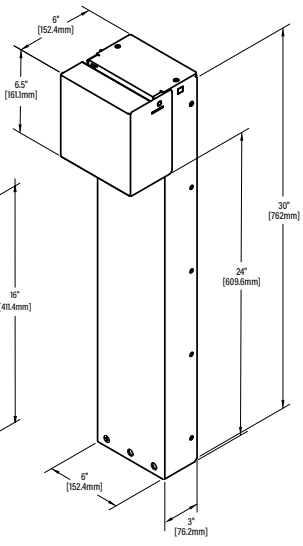


XPP1G130 (30"H)

Catalog No./Item	Description / Specifications
XPP1G30C-BK **XPP1G30C-SV** **XPP1G16C-BK** **XPP1G16C-SV**	**Outdoor Power Pedestal, 1-Gang Device Plate with Hinged Cover –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. Single gang device plate allows for mounting of devices. For 15-20A devices, weather-resistance devices must be used (included cover provides in-use protection). Devices that are 30-60A must be water-tight or fitted with a suitable weatherproof cover. The hinged cover also provides improved security with the ability to lock pedestal while not in-use. Available in standard 30" (XPP1G30C) or 16" (XPP1G16C) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA** **Note:** Some water-tight weatherproof covers such as flip lid styles (Pass and Seymour 7770, WPG1, WPG2) for 30-60A devices may fit under the provided hood. Hood is for aesthetics only when used with 30-60A devices.



XPP1G16C (16"H)



XPP1G30C (30"H)

Appendices

4.1 Streetscape Lighting Design

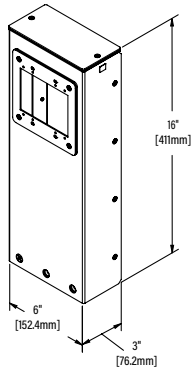
4.1.1 Specifications

Outdoor Power Pedestal

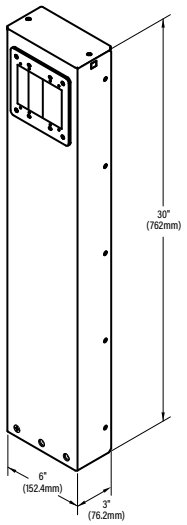
WIREMOLD®
Outdoor Power Pedestal

Outdoor Power Pedestal Ordering Information

Catalog No./Item	Description / Specifications
XPP2G30-BK **XPP2G30-SV** **XPP2G16-BK** **XPP2G16-SV**	**Outdoor Power Pedestal, 2-Gang Device Plate –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. Dual gang device plate allows for mounting of multiple devices. For 15-20A devices, weather-resistance devices must be used with an in-use cover. Devices that are 30-60A must be water-tight or fitted with a suitable weatherproof cover. Available in standard 30" (XPP2G30) or 16" (XPP2G16) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA** **Suggested Pass & Seymour While-In-Use Covers** WIUC20X WIUCAST2 WIUC20FRED **Suggested Pass & Seymour Weatherproof Covers** CA82-X: (2) Duplex CA262-G: (2) Decora CA72-G: (2) Simplex 3796: 2.156" dia opening

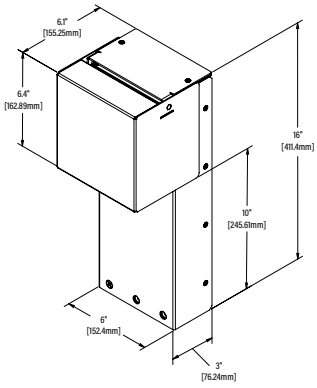


XPP2G16 (16"H)

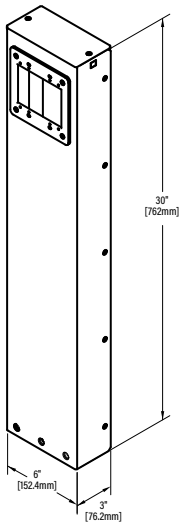


XXPP2G30 (30"H)

Catalog No./Item	Description / Specifications
XPP2G30D-BK **XPP2G30D-SV** **XPP2G16D-BK** **XPP2G16D-SV**	**Outdoor Power Pedestal, 2-Gang Device Plate with Internal Divider –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. Dual gang device plate and internal divider allows for mounting of standard and low voltage devices. For 15-20A devices, weather-resistance devices must be used with an in-use cover. Devices that are 30-60A must be water-tight or fitted with a suitable weatherproof cover. Available in standard 30" (XPP2G30D) or 16" (XPP2G16D) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA** **Suggested Pass & Seymour While-In-Use Covers** WIUC20X WIUCAST2 WIUC20FRED **Suggested Pass & Seymour Weatherproof Covers** CA82-X: (2) Duplex CA262-G: (2) Decora CA72-G: (2) Simplex 3796: 2.156" dia. opening



XPP2G16D (16"H)



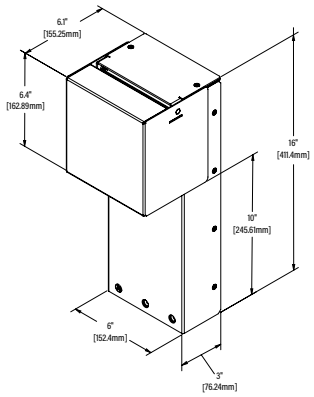
XPP2G30D (30"H)

Outdoor Power Pedestal

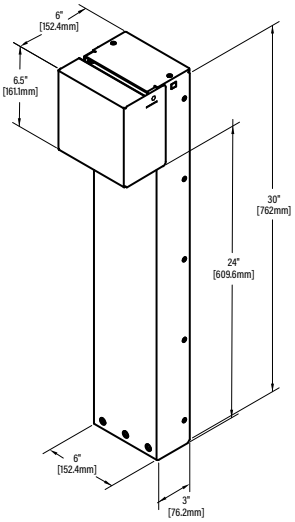
WIREMOLD®
Outdoor Power Pedestal

Outdoor Power Pedestal Ordering Information

Catalog No./Item	Description / Specifications
XPP2G30C-BK **XPP2G30C-SV** **XPP2G16C-BK** **XPP2G16C-SV**	**Outdoor Power Pedestal, 2-Gang Device Plate with Hinged Cover –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. Dual gang device plate allows for mounting of multiple devices. For 15-20A devices, weather-resistance devices must be used (included cover provides in-use protection). Devices that are 30-60A must be water-tight or fitted with a suitable weatherproof cover. The hinged cover also provides improved security with the ability to lock pedestal while not in-use. Available in standard 30" (XPP2G30C) or 16" (XPP2G16C) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA**

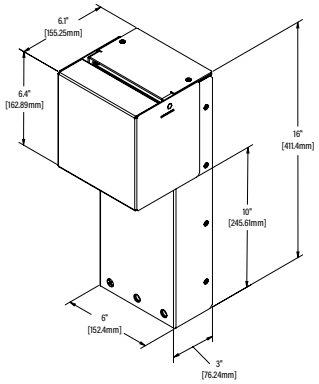


XPP2G16C (16"H)

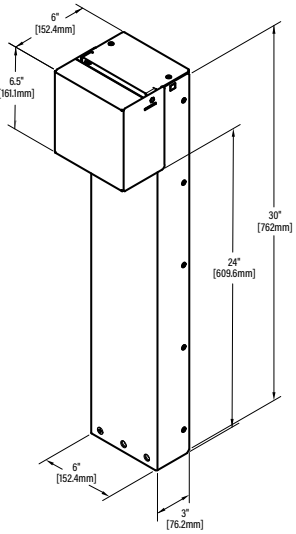


XPP2G30C (30"H)

Catalog No./Item	Description / Specifications
XPP2G30CD-BK **XPP2G30CD-SV** **XPP2G16CD-BK** **XPP2G16CD-SV**	**Outdoor Power Pedestal, 2-Gang Device Plate with Hinged Cover and Internal Divider –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. Dual gang device plate and internal divider allows for mounting of standard and low voltage devices. For 15-20A devices, weather-resistance devices must be used (included cover provides in-use protection). Devices that are 30-60A must be water-tight or fitted with a suitable weatherproof cover. The hinged cover also provides improved security with the ability to lock pedestal while not in-use. Available in standard 30" (XPP2G30CD) or 16" (XPP2G16CD) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA**



XPP2G16CD (16"H)



XPP2G30CD (30"H)

Appendices

4.1 Streetscape Lighting Design

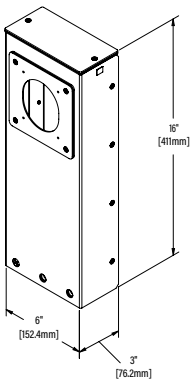
4.1.1 Specifications

Outdoor Power Pedestal

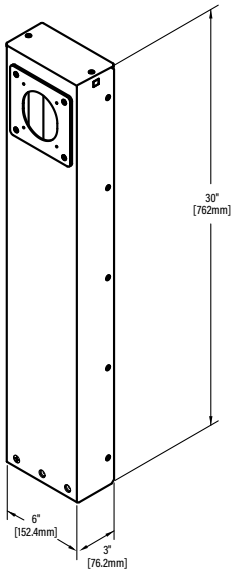
WIREMOLD®
Outdoor Power Pedestal

Outdoor Power Pedestal Ordering Information

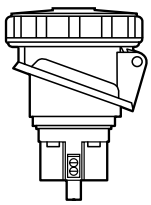
Catalog No./Item	Description / Specifications
XPPPS30-BK **XPPPS30-SV** **XPPPS16-BK** **XPPPS16-SV**	**Outdoor Power Pedestal, Pin & Sleeve Device Plate –** Designed for outdoor environments with a sheet metal form ensuring optimal performance and UL listed to NEMA 3R requirements. The pin and sleeve device plate is for use with Pass & Seymour 30A Pin and Sleeve devices. Available in standard 30" (XPPPS30) or 16" (XPPPS16) heights. Consult manufacturer for custom heights. Available in a black finish (BK) or silver finish (SV). **Country of Origin: USA**



XPPPS16 (16"H)



XPPPS30 (30"H)



Available Pass & Seymour Pin and Sleeve Devices

3 Wire	4 Wire	5 Wire
S330R4W	PS430R12W	PS530R9W
S330R6W	PS430R9W	PS530R7W
S330R7W	PS430R7W	PS530R5W
	PS430R5W	
	PS430R3W	

Outdoor Power Pedestal

WIREMOLD®
Outdoor Power Pedestal

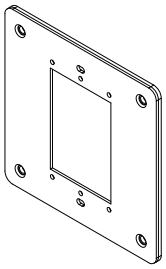
Outdoor Power Pedestal Customization Information

The outdoor power pedestal is offered at a standard height of 30" but can be custom ordered for different heights to match your application from 16 – 48".

For custom orders and sizes, please contact your Legrand sales representative.

Outdoor Power Pedestal Accessories Ordering Information

XPP1GP-BK
XPP1GP-SV

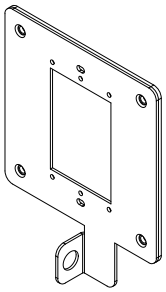


Replacement 1-Gang Device Plate – Replacement plate for 1-gang Outdoor Power Pedestal

Available in a black finish (BK) or silver finish (SV)

Country of Origin: USA

XPP1GPL-BK
XPP1GPL-SV

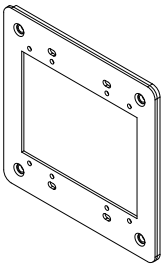


Replacement 1-Gang, Locking Device Plate – Replacement Plate for 1-gang Outdoor Power Pedestal with Hinged Cover.

Available in a black finish (BK) or silver finish (SV)

Country of Origin: USA

XPP2GP-BK
XPP2GP-SV

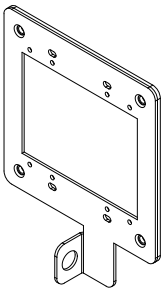


Replacement 2-Gang Device Plate – Replacement plate for 2-gang Outdoor Power Pedestal

Available in a black finish (BK) or silver finish (SV)

Country of Origin: USA

XPP2GPL-BK
XPP2GPL-SV

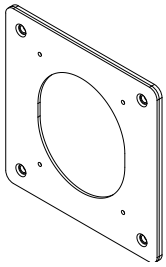


Replacement 2-Gang Locking Device Plate – Replacement plate for 2-gang Outdoor Power Pedestal with Hinged Cover

Available in a black finish (BK) or silver finish (SV)

Country of Origin: USA

XPPPSP-BK
XPPPSP-SV

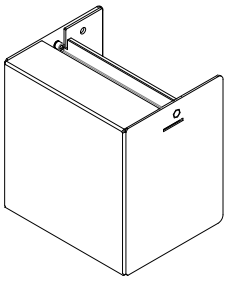


Replacement Pin & Sleeve Device Plate – Replacement plate for Pin & Sleeve Power Pedestal

Available in a black finish (BK) or silver finish (SV)

Country of Origin: USA

XPPC-BK
XPPC-SV



Replacement Cover for Outdoor Power Pedestal – Replacement hinged cover for Outdoor Power Pedestal

Available in a black finish (BK) or silver finish (SV)

Country of Origin: USA

Appendices

4.1 Streetscape Lighting Design

4.1.1 Specifications

Outdoor Power Pedestal

WIREMOLD®
Outdoor Power Pedestal

NOTE: All brand and product names referenced in this document are registered trademarks or trademarks of their respective holders.

Legrand, North America
60 Woodlawn Street
West Hartford, CT 06110
1.877.BY.LEGRAND (295.3472)
www.legrand.us

Canada
905.738.9195
www.legrand.ca

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CS3051 — Updated January 2022 — For latest specs visit www.legrand.us/wiremold

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Appendices

7.8 Streetscape Lighting Design

7.8.2 Specifications

Outdoor Power Box

1 KENT STAINLESS **In Ground Power Unit**

KENT T2US POWER IGU - 2 FOOD TRUCKS

Our Type 2 In Ground Unit for the USA market has a 18" x 24" top cover - recessed 2.5" to take 2" paver blocks plus bedding.

UL Listed electrical components are housed under a hinged recessed manhole cover. The cover itself can withstand slow moving wheel loads from a 40 ton truck.

This outdoor In Ground Power Box allows 2 Food Trucks - with heavy duty power requirements for cooking such as burger, hot dog, waffle vendors, to plug into power while eliminating the trailing cables and cords and avoiding the noise and pollution associated with a portable gas generator.

Individual electrical circuits work in parallel (not in sequence) - so 1 vendor tripping their circuit will not affect the neigboring vendor

A 'notch' on the front cover can be revealed or concealed. When revealed the power cords can exit via this notch allowing the unit be used to deliver power while it is in the closed position.

Features

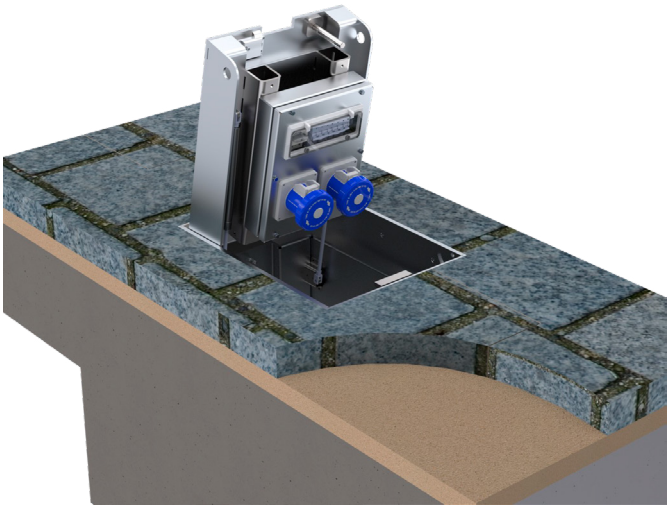
- ☐ Gas Rams
- ☐ Up to 2nr 50 Amp NEMA 6P rated receptacles
- ☐ Alternatively use 2 20 Amp Receptacles plus a line of 4 Data/AV connections
- ☐ Suitable for Market Trading Areas
- ☐ 4"dia drainage outlet pipe

Designed For

- ☐ 2nr 60A 3 Phase
- ☐ Typically for access by burger vendors

  Also used by lower power vendors who also need a strip of Data connections (eg Lighting, Monolith Displays, Ticket Sales)

- ☐ Contact us for alternate utility configurations that could fit in the same box



Product Code	Visible Frame Size	Unit Depth	Cable Duct (Ø)	Drainage (Ø)
KIGU T2US 18"/24"	18" x 24"	18"	5"	4"

Specify: Kent IGU - Type 2(US); (KIGU 18/24); 18" x 24" top ; with an 18" depth; Grade 316 Stainless Steel; 2nr 60 Amp Three Phase 60A - 4 Pole – 5 Wire 120/208VAV Receptacles. 4" Bottom Drain outlet must be connected to a 4" drain pipe on site

Specify: Kent IGU - Type 2(US); (KIGU 18/24); 18" x 24" top ; with an 18" depth; Grade 316 Stainless Steel; 2nr 20 Amp 3 Phase Nema L5-20 Receptacles plus 4nr RJ45 Data / XLR Audio Connections. 4" Bottom Drain outlet must be connected to a 4" drain pipe on site



Medium Duty

AASHTO H20 Loading

Factory tests are carried out of 24,800lbs point load from a 9" footprint of a pneumatic tyre from a heavy goods vehicle.

16,000 lbs is the H-20 Design Loading Criteria.

Our tests are done on an unfilled recessed cover

www.kentstainless.com

Outdoor Power Box

KENT T2US Power IGU - 2 FOOD TRUCKS

Designed for:

- **2 Food Trucks** x2

OR

- **2 Food Carts** x2
- **Plus 4 Data / Audio-Visual** x4



2 x 60 Amp - for Food Trucks

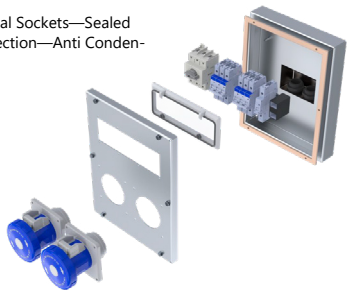


2 x 20 Amp + 4 x RJ45 / AV - for Food Carts with Data Connection



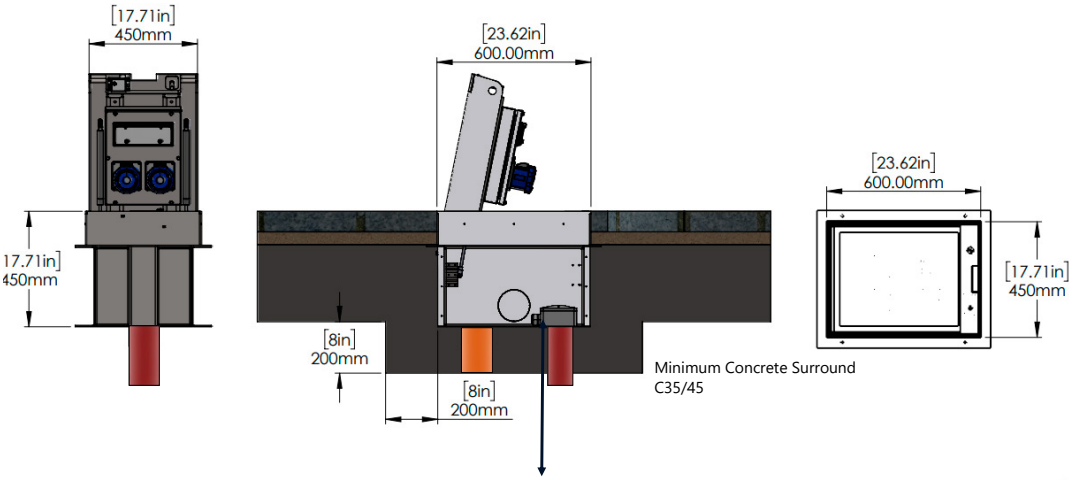
Paviour directly adjacent to frame to be bedded using an epoxy mortar or polymer modified mortar.

Panel Contains Electrical Sockets—Sealed Window—Circuit Protection—Anti Condensation Heater



Alternative Knockouts For 5"Ø (125mm) Cable Duct Laser Cut Hole Knockout

2 stage delivery - outer box delivered to site first followed by electrical panel (above) - to be connected by registered electrical installer



Minimum Concrete Surround C35/45

4"Ø (110mm) vertical drainage outlet pre-welded to bottom of box

NB ensure connection to drainage system



Connect incoming power to IP67 NEMA 6P junction box - Fill with resin and close

Appendices

7.8 Streetscape Lighting Design

7.8.2 Specifications

Outdoor Power Box

1 KENT STAINLESS **In Ground Power Unit**

KENT T3US POWER IGU - 2 FOOD TRUCKS + Data AV

Our Type 3 In Ground Unit for the USA market has a 24" x 24" top cover - recessed 2.5 to take 2" paver blocks plus bedding.

UL Listed electrical components are housed under a hinged recessed manhole cover. The cover itself can withstand slow moving wheel loads from a 40 ton truck.

This outdoor In Ground Power Box allows 2 Food/Coffee carts with light duty power requirements plus 2 larger Food Trucks with heavy duty power requirements for cooking cush as burger/hot dog, waffle vendors to plug into power while eliminating the trailing cables and cords and avoiding the noise and pollution associated with a portable gas generator.

Alternatively the same size box will house heavy duty power for 2 Food Trucks plus a strip of Data/AV connections

Individual electrical circuits work in parallel (not in sequence) - so 1 vendor tripping their circuit will not affect the neigboring vendor

A 'notch' on the front cover can be revealed or concealed. When revealed the power cords can exit via this notch allowing the unit be used to deliv-

Features

- ☐ Gas Rams
- ☐ Up to 2nr NEMA 6P rated 60Amp plus 2nr 20 Amp receptacles
- ☐ Suitable for Market Trading Areas
- ☐ 4"dia drainage outlet pipe

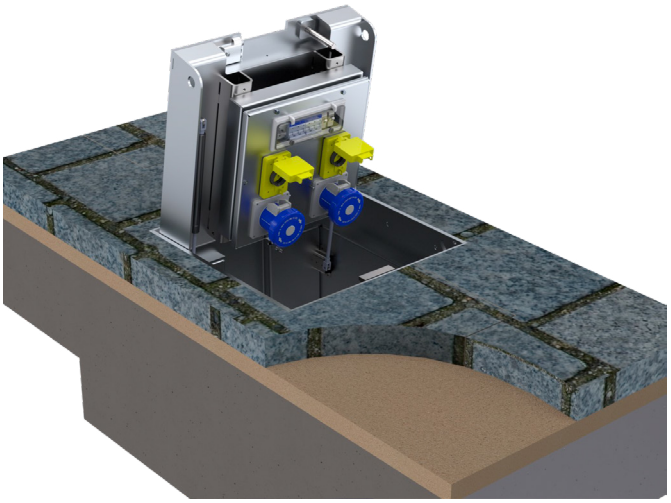
Designed For

- ☐ 2nr 60A 3 Phase

  Plus

  2nr 20A 1 Phase
- ☐ Typically for access by heavy duty power users like burger vendors plus neighboring lower power users like coffee stalls.

  Or for Burger vendors who also need data connections
- ☐ Contact us for alternate utility configurations that could fit in the same box



Product Code	Visible Frame Size	Unit Depth	Cable Duct (Ø)	Drainage (Ø)
KIGU T3US 24"/24"	24" x 24"	18"	5"	4"

Specify: Kent IGU - Type 3(US); (KIGU 24/24); 24" x 24" top ; with an 18" depth; Grade 316 Stainless Steel; 2nr 60 Amp Three Phase 60A - 4 Pole – 5 Wire 120/208VAV Receptacles plus 2nr 20 Amp 3 Phase Nema L5-20 Receptacles. 4" Bottom Drain outlet must be connected to a 4" drain pipe on site

Specify: Kent IGU - Type 3(US); (KIGU 24/24); 24" x 24" top ; with an 18" depth; Grade 316 Stainless Steel; 2nr 60 Amp Three Phase 60A - 4 Pole – 5 Wire 120/208VAV Receptacles plus 4nr RJ45 Data / XLR Audio Connections. 4" Bottom Drain outlet must be connected to a 4" drain pipe on site



Medium Duty

AASHTO H20 Loading

Factory tests are carried out of 24,800lbs point load from a 9" footprint of a pneumatic tyre from a heavy goods vehicle.

16,000 lbs is the H-20 Design Loading Criteria.

Our tests are done on an unfilled recessed cover

www.kentstainless.com

Outdoor Power Box

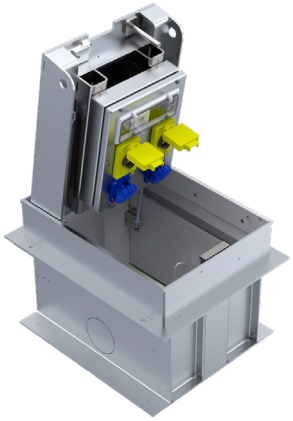
KENT T3 US Power IGU - 2 FOOD TRUCKS + Data AV

Designed for:

- **2 Food Trucks** x2
- **Plus 2 Food Carts** x2

Also Designed for:

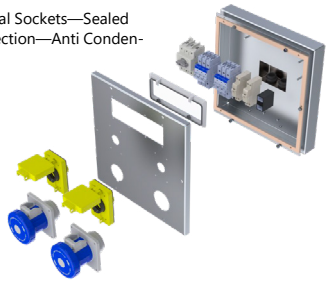
- **2 Food Trucks** x2
- **Plus 4 AV** x2







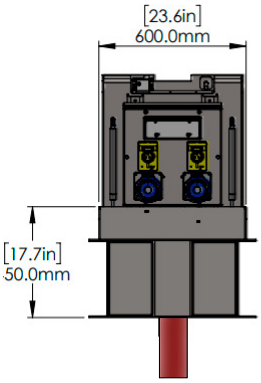
Panel Contains Electrical Sockets—Sealed Window—Circuit Protection—Anti Condensation Heater

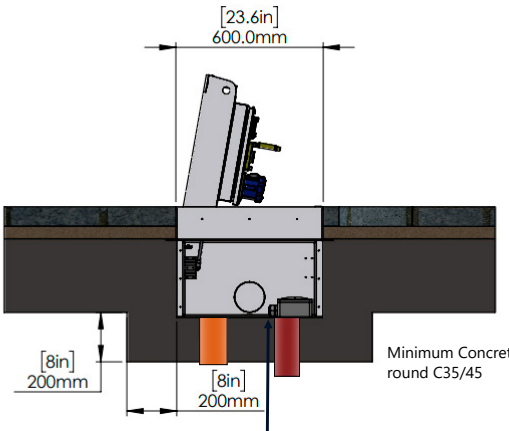


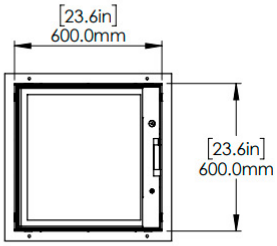
Paviour directly adjacent to frame to be bedded using an epoxy mortar or polymer modified mortar.

Alternative
Knockouts For 5"Ø (125mm) Cable Duct
Laser Cut Hole Knockout

2 stage delivery - outer box delivered to site first followed by electrical panel (above) - to be connected by registered electrical installer



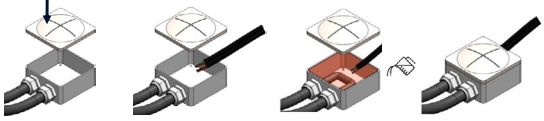




Minimum Concrete Surround C35/45

4"Ø (110mm) vertical drainage outlet pre-welded to bottom of box

NB ensure connection to drainage system



Connect incoming power to IP67 NEMA 6P junction box - Fill with resin and close

Appendices

7.8 Streetscape Lighting Design

7.8.2 Specifications

Outdoor Power Box

1 KENT STAINLESS **In Ground Power Unit**

KENT T12US POWER IGU - 100A STAGE POWER + 4 FOOD CARTS + MEDIA

Our Type 12 Twin Box In Ground Unit for the USA market has a 34" x 43" top cover - recessed 2.5" to take 2" paver blocks plus bedding, with a matching box 19" wide

UL Listed electrical components are housed under a hinged recessed manhole cover. The cover itself can withstand slow moving wheel loads from a 40 ton truck.

This outdoor In Ground Power Box allows 4 Food/Coffee Carts to plug into power while eliminating the trailing cables and cords and avoiding the noise and pollution associated with a portable gas generator.

It also allows a 100 amp connection for very heavy duty power requirements—e.g. for a stage or ice rink or for plugging in a distribution board which further supplies power to many other vendors (used in open box position only)

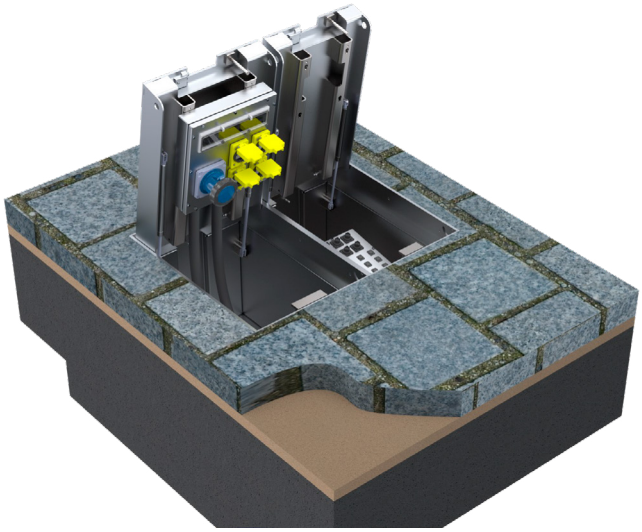
The 2nd box then contains up to 18 broadcast media connections including Data, Fiber and Audio Visual connections

Features

- ☐ Gas Rams
- ☐ 1 x 100 Amp plus 4 x 20 Amp NEMA 6P rated receptacles
- ☐ 2nd Box with 18 AV connections
- ☐ Suitable for Stage Power plus Market Trading Areas
- ☐ 4"dia drainage outlet pipe

Designed For

- ☐ 1nr 100A 3 Phase plus 4nr 20 Amp 1 Phase plus 18 AV Connections
- ☐ Typically for access by Stage Power, with screen & speaker set up
- ☐ Contact us for alternate utility configurations that could fit in the same box



Product Code	Visible Frame Size	Unit Depth	Cable Duct (Ø)	Drainage (Ø)
KIGU T12US 43"/34"	42" x 34"	26"	5"	4"



Medium Duty

AASHTO H20 Loading

Factory tests are carried out of 24,800lbs point load from a 9" footprint of a pneumatic tyre from a heavy goods vehicle.

16,000 lbs is the H-20 Design Loading Criteria.

Our tests are done on an unfilled recessed cover

Specify: Kent IGU - Type 12(US) Twin Box; (KIGU 43/34); 42" x 34" top ; with a 26" depth; Grade 316 Stainless Steel; 1nr 100 Amp 3 Phase plus 4nr 20 Amp 1 Phase Nema L5-20 Receptacles plus 18 Fiber/Data/AV Connections. 4" Bottom Drain outlet must be connected to a 4" drain pipe on site

www.kentstainless.com

Outdoor Power Box

KENT T12US POWER IGU - 100A STAGE POWER + 4 FOOD CARTS + MEDIA

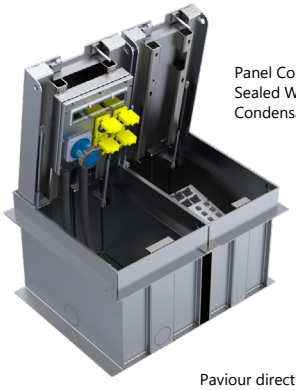
Designed for:

- **Stage Power** x1
- +
- **4 x Food Carts** x4
- +
- **Plus 18 Data /Audio-Visual** x18



1 x 100 Amp - for Stage Power
4 x 20 Amp + for Food Carts

18 x Data / Audio / Visual



Panel Contains Electrical Sockets—Sealed Window—Circuit Protection—Anti Condensation Heater

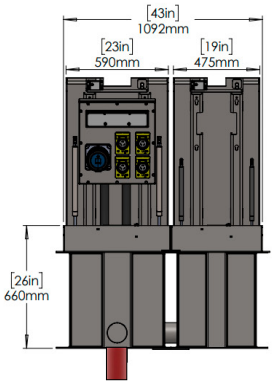


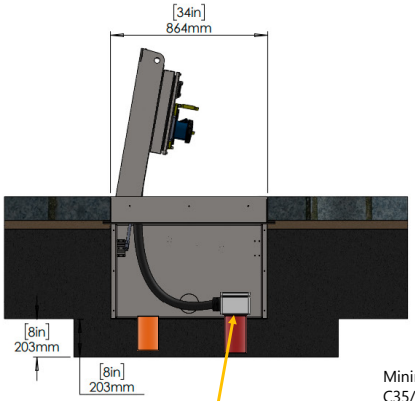


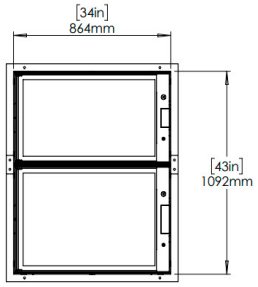
Paviour directly adjacent to frame to be bedded using

Alternative Knockouts For 5"Ø (125mm) Cable Duct Laser Cut Hole Knockout

2 stage delivery - outer box delivered to site first followed by electrical panel (above) - to be connected by registered electrical installer



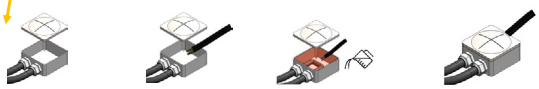




Minimum Concrete Surround
C35/45

4"Ø (110mm) vertical drainage outlet pre-welded to bottom of box

NB ensure connection to drainage system



Connect incoming power to IP67 NEMA 6P junction box - Fill with resin and close


Raleigh
McAdams
swa