

# STALLINGS STREETSCAPE

DESIGN STANDARDS AND DETAILS PLAN



# CONTACT

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TOWN OF STALLINGS  
315 STALLINGS ROAD  
STALLINGS, NC 28104  
(704)821-8557

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## DESTINATION BY DESIGN

PLANNING | ENGINEERING | COMMUNICATIONS

LANDSCAPE ARCHITECT / PROJECT MANAGER: ALEX GOTHERMAN, PLA  
DESTINATION BY DESIGN PLANNING  
136 FURMAN ROAD, SUITE 6  
BOONE, NC 28607  
(828)386-1866

# CONTENTS

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**Minimum Large Tree Setbacks – Municipal and Local Roads:**

URBAN / SUBURBAN			RURAL		
Posted Speed	Urban Street Type	Clear Zone (setback)	Posted Speed	Rural Street Type	Clear Zone (setback)
≤ 25 mph	Main Street, Avenue, Boulevard	8'	≤ 25 mph	Village Main Street	8'
>25 - 35 mph	Avenue, Boulevard	10'	>25 - 35 mph	Avenue, Boulevard, Rural Road	14'
>35 - 45 mph	Boulevard, Parkway	12'	>35 - 45 mph	Boulevard Parkway, Rural Road	20'
> 45 mph	Parkway	30'	> 45 mph	Parkway, Rural Road	30'

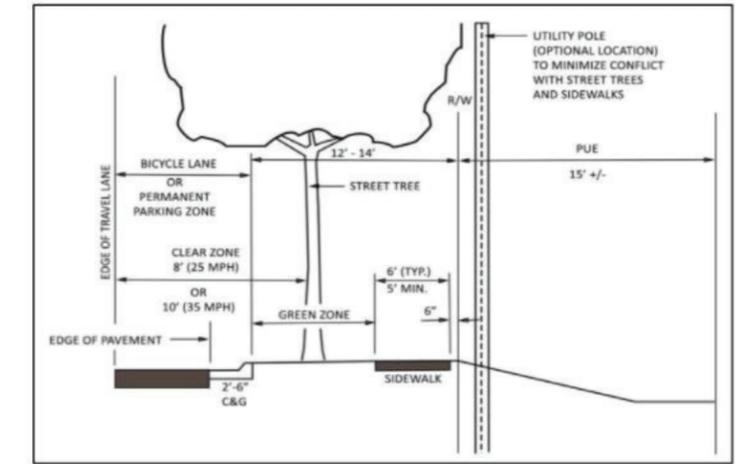
Distances measured to the center line of the tree.

**Minimum Small Trees and Shrub Setbacks – All Routes:**

Posted Speed	Section	Description	Distance Clear Zone (setback)
≤ 35 mph	Curb & Gutter	to foliage line of shrub	1'
		to center of small tree	5'
	Shoulder	to foliage line of shrub	2'
		to center of small tree	8'
>35 - 45	Curb & Gutter	to foliage line of shrub	6'
		to center of small tree	8'
	Shoulder	to foliage line of shrub	8'
		to center of small tree	10'
Greater than 45 mph	Curb & Gutter	to foliage line of shrub	10'
		to center of small tree	20'
	Shoulder	to foliage line of shrub	15'
		to center of small tree	20'

**NOTE:**

- SETBACK DISTANCES ARE MEASURED FROM THE EDGE OF TRAVEL WAY - IF NO LANE MARKING, THEN 11' LANE
- BIKE LANES AND ON STREET PARKING MAY BE INCLUDED IN BUFFER SETBACK MEASUREMENTS
- VERTICAL CLEARANCE IS 16' ABOVE STREETS AND 7' ABOVE SIDEWALKS
- 4" DIAMETER OR LARGER IS CONSIDERED A LARGE TREE
- 40' RECOMMENDED SPACING BETWEEN LARGE TREES
- PLANTS IN SETBACK ZONE CANNOT EXCEED 2' IN HEIGHT



**Figure 1 Recommended Green Zone and Sidewalk Zone (Complete Streets Planning and Design Guide)**



Town of Stallings -NC-

STREETSCAPE DESIGN STANDARDS

Client:  CITY OF STALLINGS 315 STALLINGS ROAD STALLINGS, NC 28104 (704)821-8557	 <p><b>DESTINATION BY DESIGN</b>                  PLANNING   ENGINEERING   COMMUNICATIONS</p> <p>136 Furman Rd. Boone, NC 28607 Ph: 828.386.1866</p>	Project #: Drawn By: Checked By: Scale: Varies Issue _____ Date _____ 1 _____ JULY 2022
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**NCDOT PLANTING GUIDELINES**



A-1

## STREETSCAPE TYPE:

Is this section of streetscape part of existing or proposed greenway?

If yes, use type...	
1A: GREENWAY AGAINST BUILDING	1B: GREENWAY

If no, use type...	
2: TYPICAL STREET	3: NARROW SIDE STREET

If it is a greenway section, does the greenway run in front of existing or proposed commercial space?

If yes, use type...	If no, use type...
1A: GREENWAY AGAINST BUILDING	1B: GREENWAY

If not a greenway section, how much space from edge of curb to edge of construction buffer?

If 14' or greater, use type...	If less than 14', use type...
2: TYPICAL STREET	3: NARROW SIDE STREET

## STREETSCAPE SUB-TYPE:

Is on-street parking feasible?

If yes, use sub-type...
ON-STREET PARKING FORM

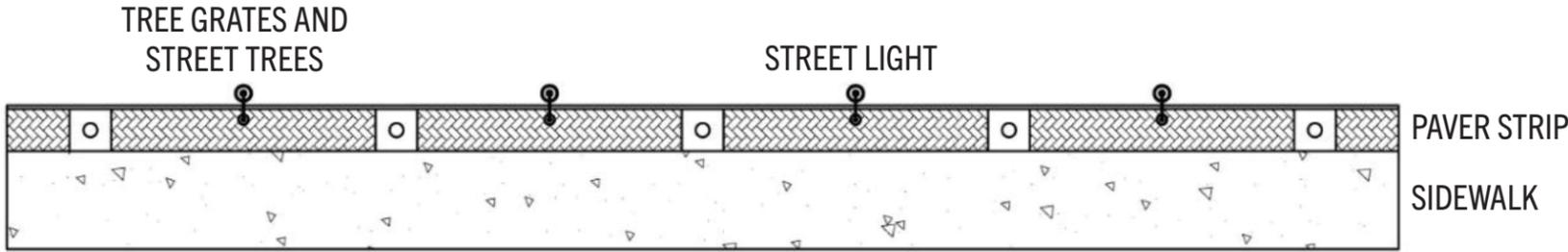
If no, is this section of streetscape located in the "Downtown Core"?	
If yes, use sub-type...	If no, use sub-type...
DOWNTOWN CORE FORM	LANDSCAPE FORM

### NOTES:

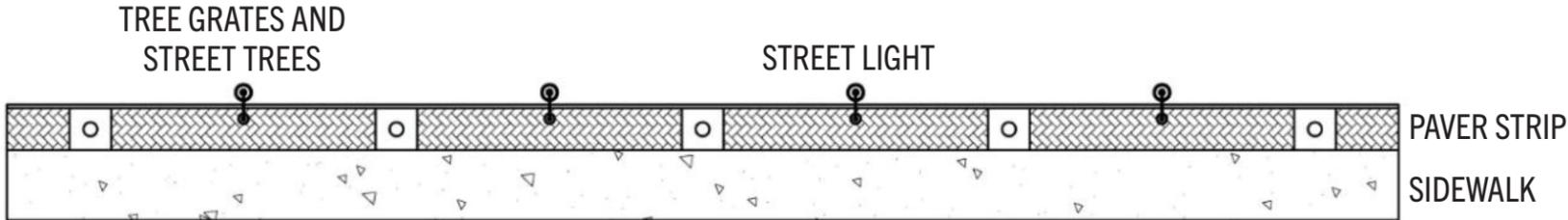
- WHEN DETERMINING TREE TYPE, OVERHEAD UTILITY LINES ARE THE MAIN FACTOR TO CONSIDER. IF THERE IS AN OVERHEAD POWER LINE ONLY USE THE APPROVED TREES PERMITTED UNDER OVERHEAD UTILITIES, SEE APPROVED TREE LIST IN SECTION E FOR MORE DETAILS.

		<h2>STREETSCAPE DESIGN STANDARDS</h2>	
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			<h1>A-2</h1>

# SECTIONS



PLAN TYPE 1 - GREENWAY



PLAN TYPE 2 - TYPICAL



PLAN TYPE 3 - NARROW

## OVERVIEW:

- GREENWAY + GREENWAY AGAINST BUILDING
  - DOWNTOWN STALLINGS PRIMARY CORRIDOR WITH PEDESTRIAN AND GREENWAY SPINE FACILITIES
- TYPICAL
  - DOWNTOWN STALLINGS PRIMARY CORRIDOR WITH PEDESTRIAN-ONLY FACILITIES
- NARROW SIDE-STREET
  - SECONDARY ROAD WITH PEDESTRIAN-ONLY FACILITIES



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\_\_\_\_\_

STREETSCAPE PLAN TYPES

B-1

# SAMPLE LOCATION



## STREETSCAPE DESIGN STANDARDS

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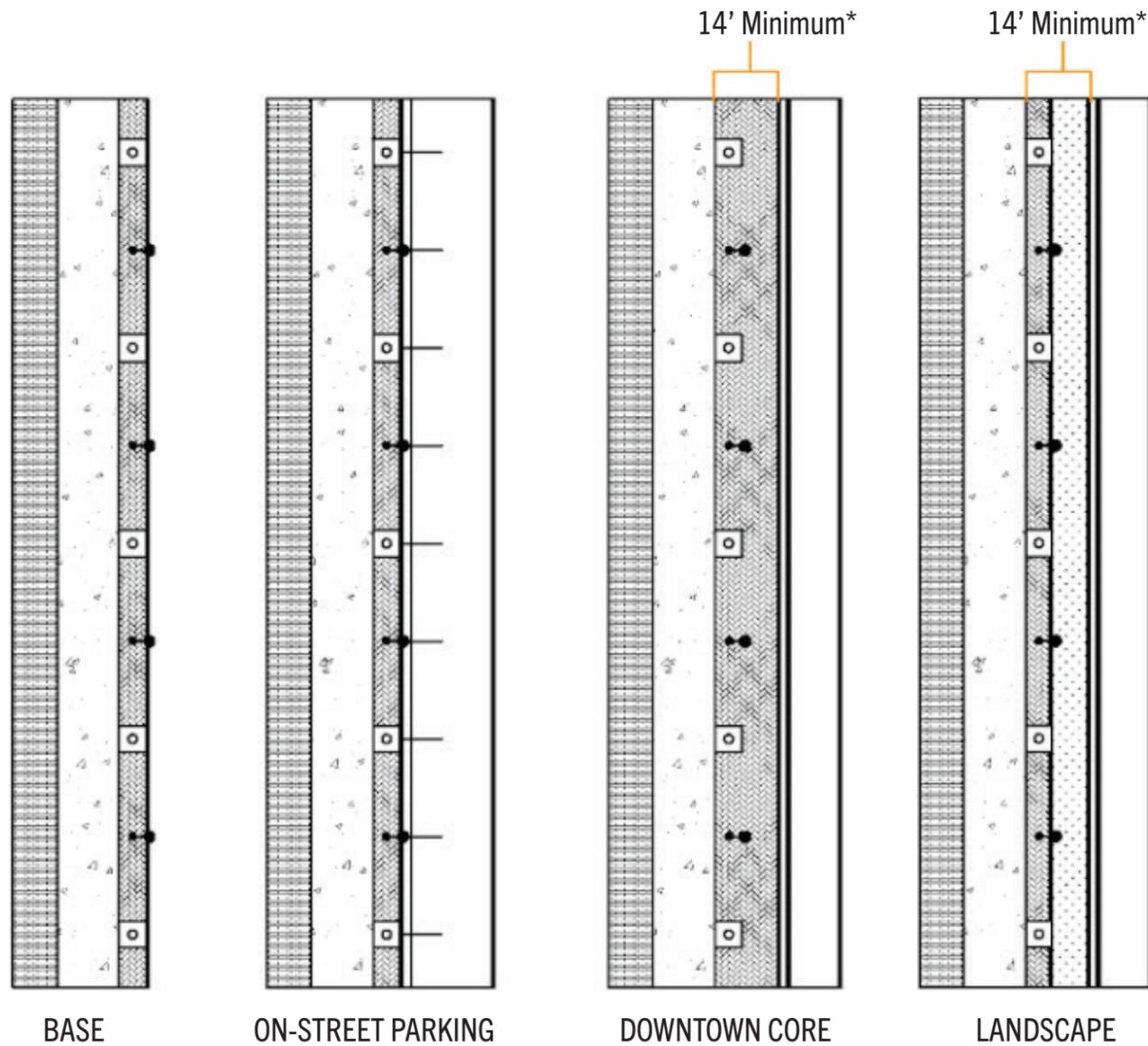
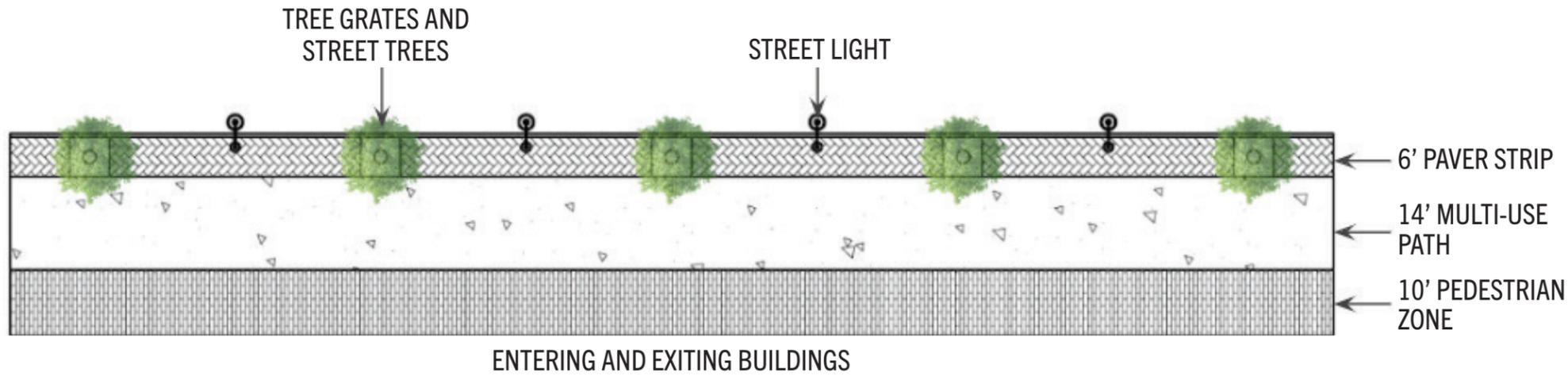
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STREETSCAPE PLAN  
TYPES

B-2



TOTAL WIDTH BUILDING FACE TO CURB = 30'

TOTAL WIDTH BUILDING FACE TO CURB = 38'

### GREENWAY AGAINST BUILDING

- BIKE AND PEDESTRIAN
- 14' WIDE MULTI-USE PATH
- 6' WIDE PAVER STRIP
- 10' WIDE PEDESTRIAN SPACE ADJACENT TO COMMERCIAL SPACE



#### NOTE:

\* TOTAL PAVER OR LANDSCAPE STRIP WIDTH MAY INCREASE PER ROAD SPEED LIMIT AND REQUIRED BUFFER DISTANCES OUTLINED IN THE NCDOT PLANTING GUIDELINES. SEE SHEETS A-1 AND B-8 FOR MORE DETAILS.



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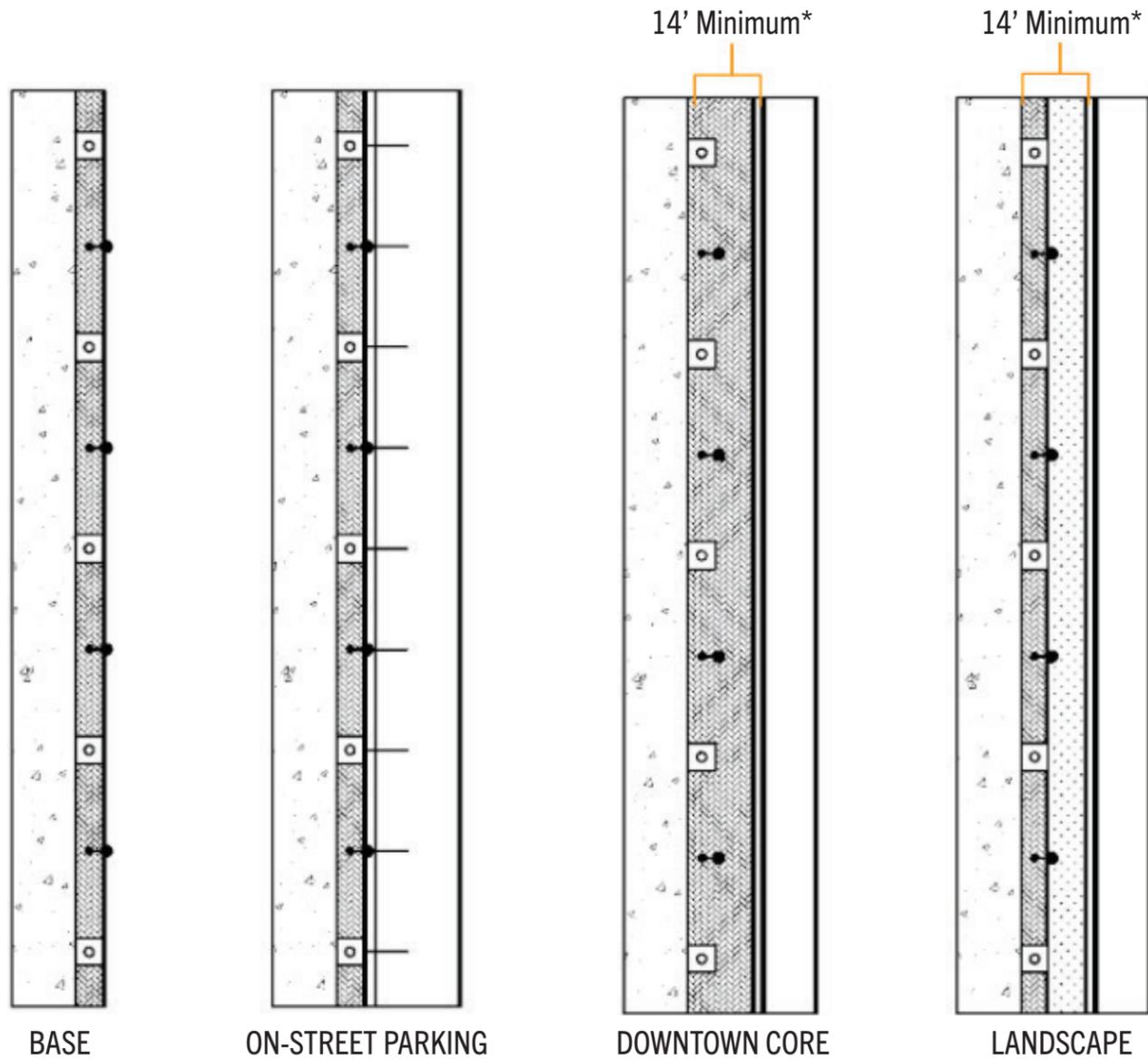
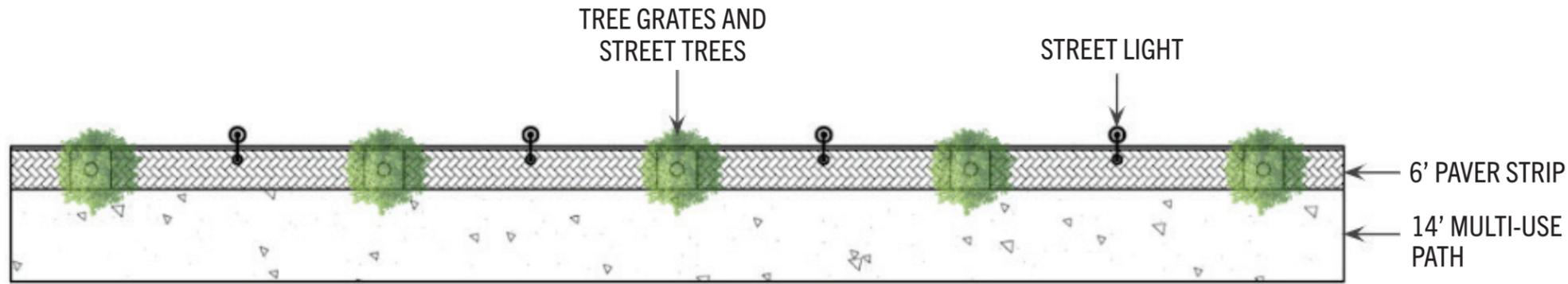
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STREETSCAPE PLAN  
TYPE 1A

**B-3**



TOTAL WIDTH BUILDING FACE TO CURB = 20'

TOTAL WIDTH BUILDING FACE TO CURB = 28'

### GREENWAY

- BIKE AND PEDESTRIAN
- 14' WIDE MULTI-USE PATH
- 6' WIDE PAVER STRIP



### NOTE:

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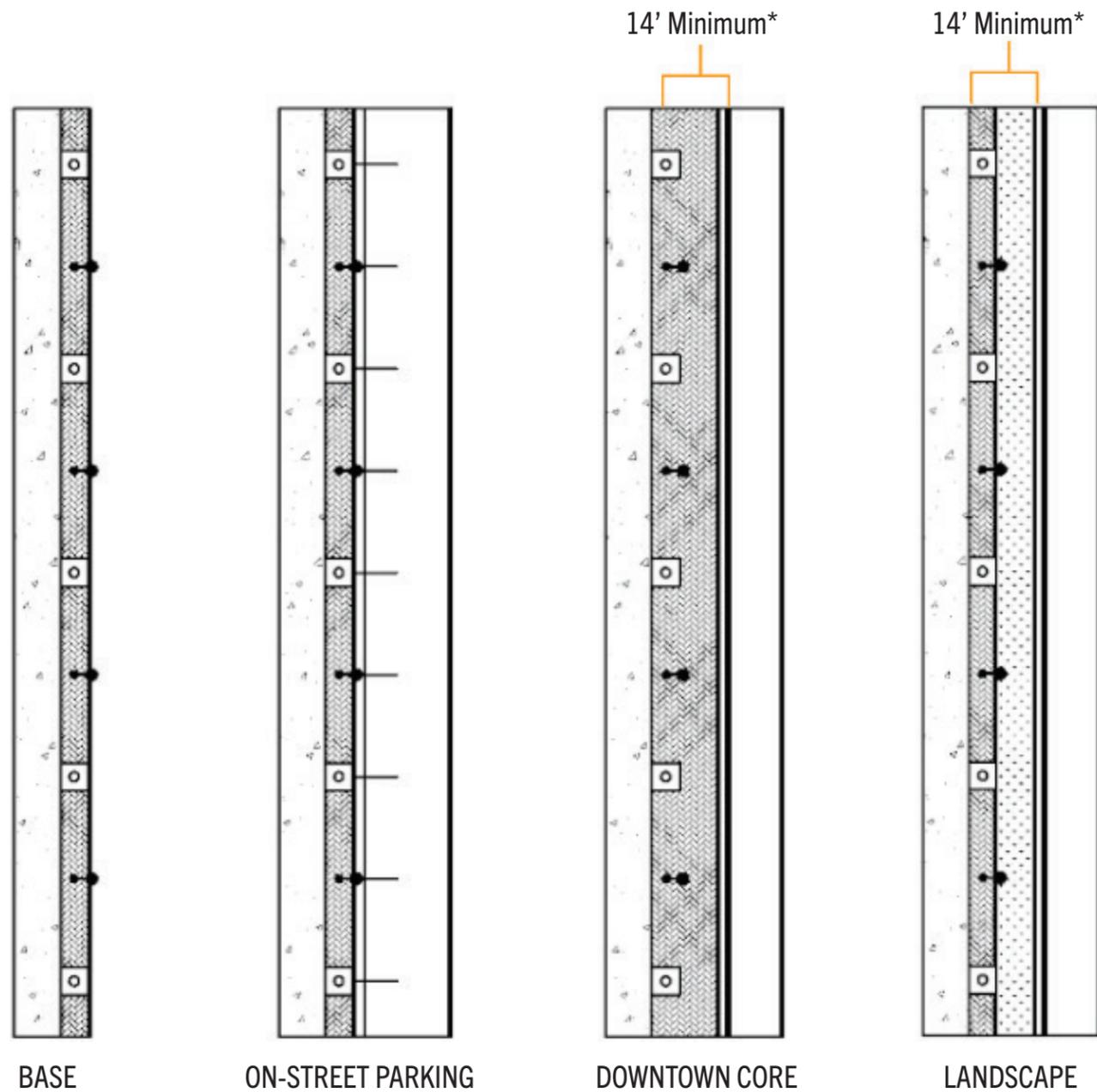
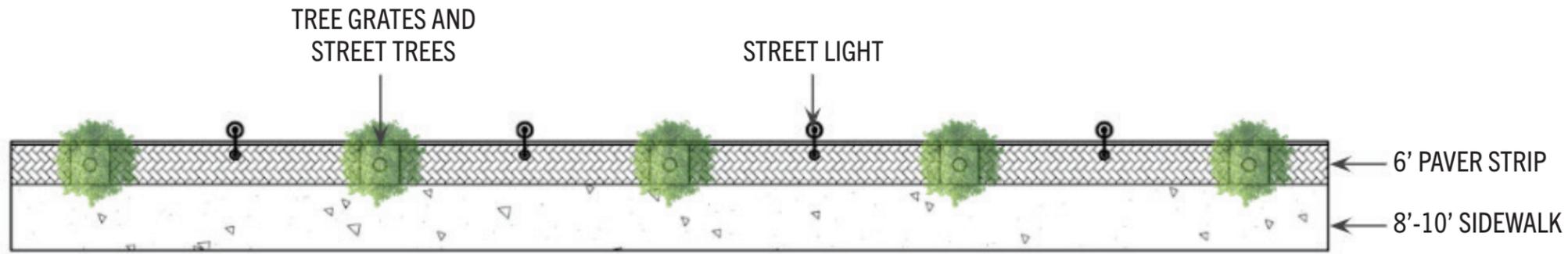
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STREETSCAPE PLAN  
TYPE 1B

B-4



TOTAL WIDTH BUILDING FACE TO CURB = 16'

TOTAL WIDTH BUILDING FACE TO CURB = 24'

**TYPICAL**

- PEDESTRIAN-ONLY
- 8'-10' WIDE SIDEWALK
- 6' WIDE PAVER STRIP



**NOTE:**

\* TOTAL PAVER OR LANDSCAPE STRIP WIDTH MAY INCREASE PER ROAD SPEED LIMIT AND REQUIRED BUFFER DISTANCES OUTLINED IN THE NCDOT PLANTING GUIDELINES. SEE SHEETS A-1 AND B-8 FOR MORE DETAILS.



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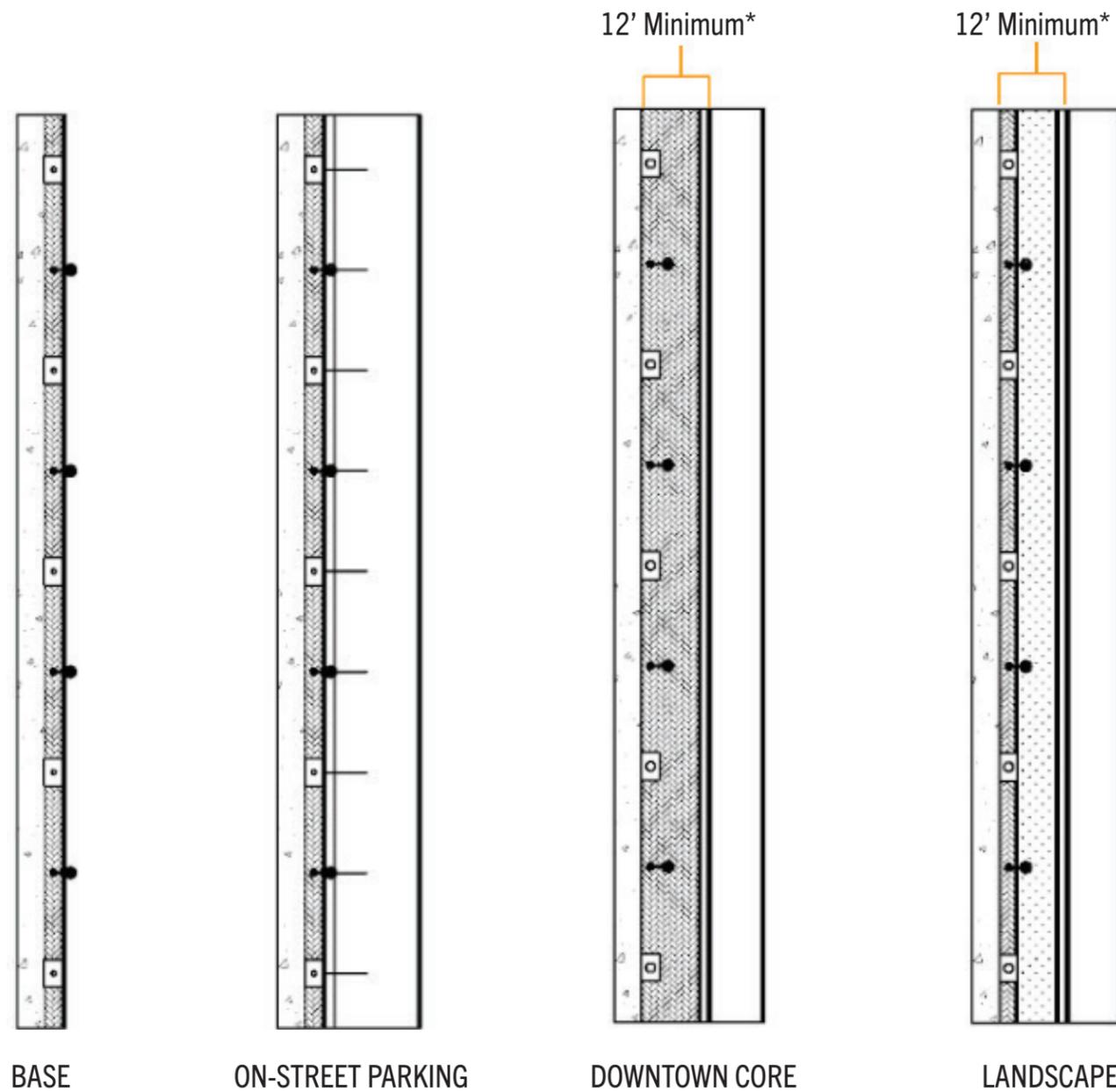
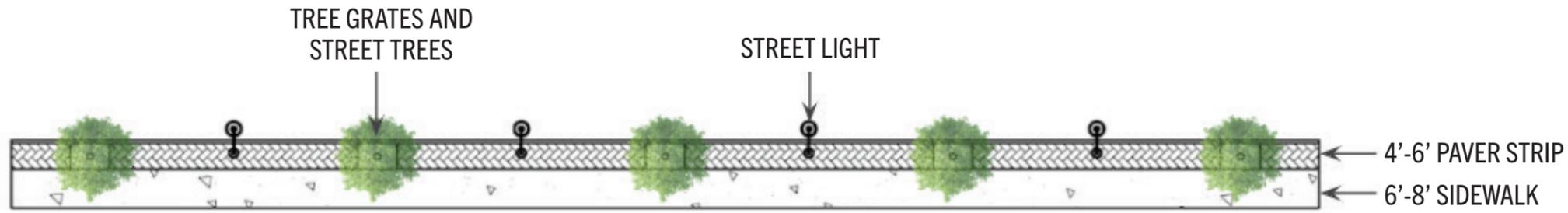
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**STREETSCAPE PLAN TYPE 2**

**B-5**



TOTAL WIDTH BUILDING FACE TO CURB = 16'

TOTAL WIDTH BUILDING FACE TO CURB = 24'

**NARROW**

- PEDESTRIAN-ONLY
- 6'-8' WIDE SIDEWALK
- 4'-6' WIDE PAVER STRIP



**NOTE:**

\* TOTAL PAVER OR LANDSCAPE STRIP WIDTH MAY INCREASE PER ROAD SPEED LIMIT AND REQUIRED BUFFER DISTANCES OUTLINED IN THE NCDOT PLANTING GUIDELINES. SEE SHEETS A-1 AND B-8 FOR MORE DETAILS.

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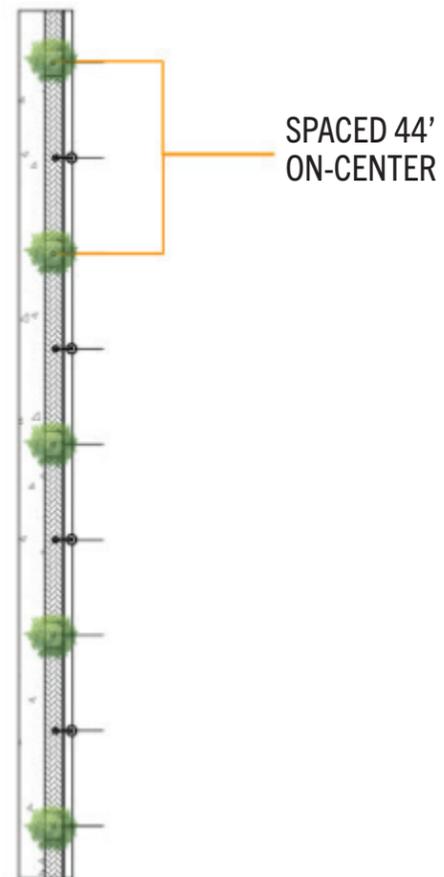
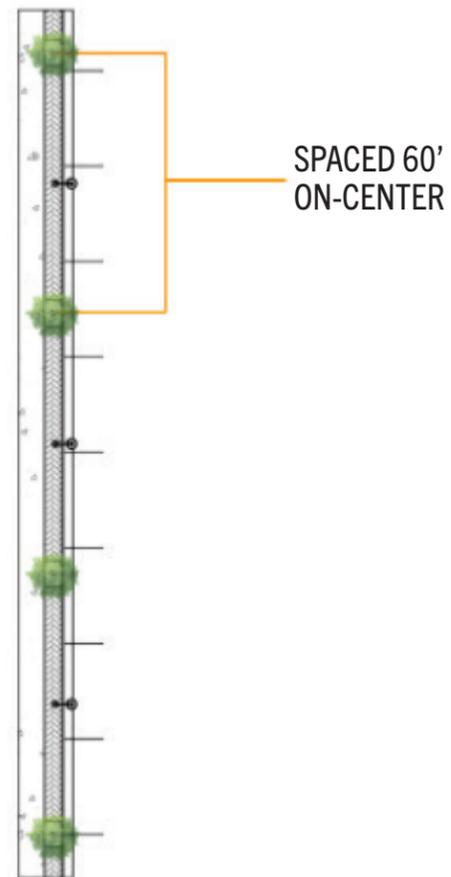
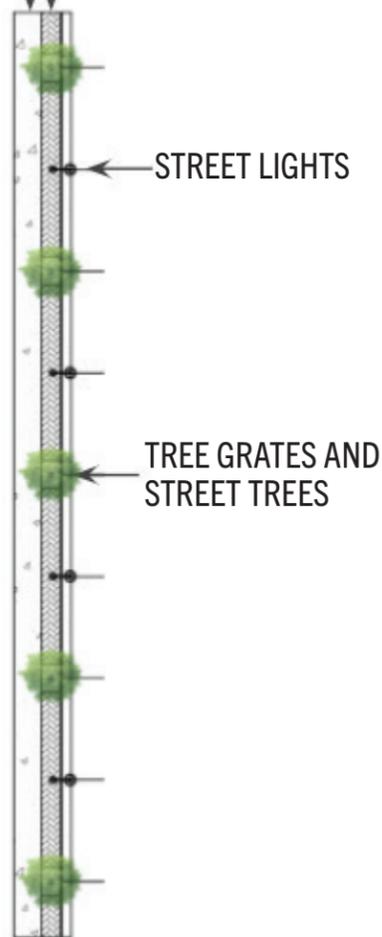
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\_\_\_\_\_  
\_\_\_\_\_

**STREETSCAPE PLAN TYPE 3**

**B-6**

SIDEWALK  
PAVER STRIP



**NOTE:**

- 44' ON-CENTER SPACING FOR TREES AND LIGHTS IS BEST USED WHEN ADJACENT TO ON-STREET PARKING BECAUSE THE SPACING WILL LINE UP WITH PARKING SPACES TO AVOID HITTING CAR DOORS INTO LIGHT POSTS AND TREE TRUNKS.
- IF THERE IS NO ON-STREET PARKING, THE 60' ON-CENTER SPACING IS RECOMMENDED TO PROVIDE APPROPRIATE LIGHT COVERAGE AND ALLOW FOR FEWER TREES AND LIGHTS PER 200' SECTION OF STREETScape.



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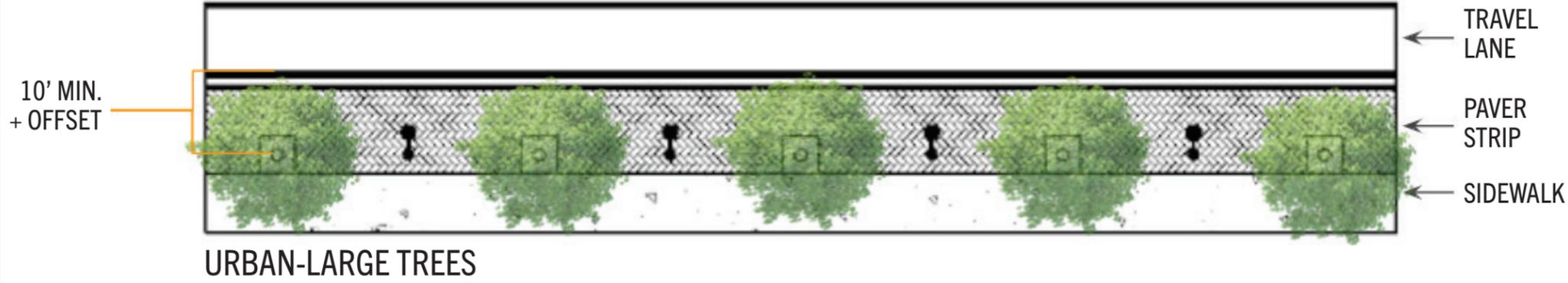
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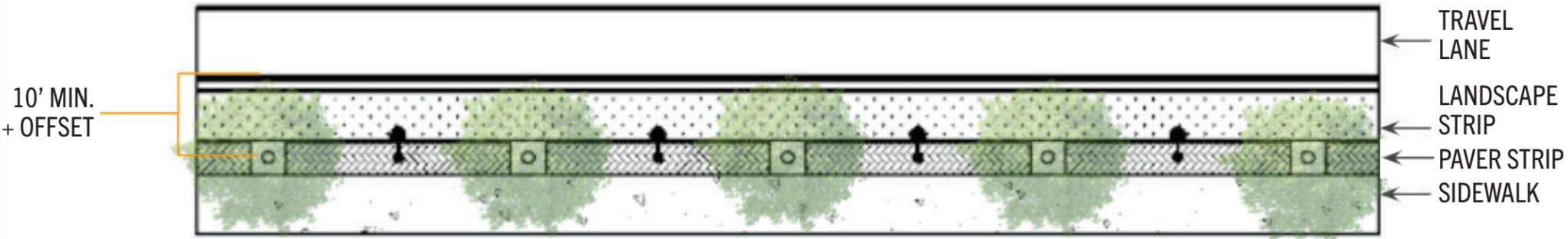
**ON-STREET PARKING  
SPACING COMPARISON**

**B-7**

# DOWNTOWN CORE FORM



# LANDSCAPE FORM



**NOTE:**

- SETBACK DISTANCE MAY INCREASE PER ROAD SPEED LIMIT, SEE SHEET A-1 FOR MORE DETAILS. SETBACK DISTANCES ARE MEASURED FROM THE EDGE OF TRAVEL WAY TO THE CENTER OF TREE TRUNK.



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ROAD EDGE  
OFF-SET SOLUTIONS

**B-8**



EXISTING CONDITIONS



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DOWNTOWN CORE  
ALONG STALLINGS ROAD

C-1



EXISTING CONDITIONS



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EXTENSION ROAD  
WITH STREETSCAPE

C-2



# STREETSCAPE DESIGN STANDARDS

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**MATERIALS  
OVERVIEW**

**D-1**



**BREAKWATER BENCH WITH BACK**  
 The Breakwater flat bench is covered by Patent No. Des. D465,936. All other Breakwater pieces are Exclusive By Design™.

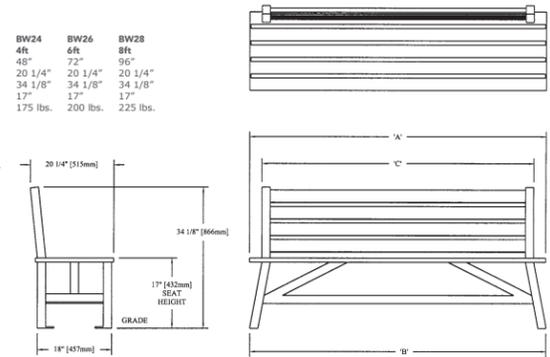
**KEYSHIELD® METAL FINISH**  
 The trademarked KEYSHIELD® finish protects each piece of furniture from chipping, cracking, and UVA damage while providing unparalleled corrosion resistance. Steel products are finished with a two-coat powder coating process applied to a 7-15 mil thickness. Substrate preparation includes sandblasting to a white finish to remove all surface contaminants. The raw product then receives a corrosion-inhibiting phosphate coating prior to the application of the powder coating. The first coat applied to the substrate is zinc rich epoxy powder primer used

exclusively on sandblasted parts. The second coat is a colored polyester powder coating. Both coats are electrostatically applied and oven cured according to powder coating manufacturing specifications to create a smooth, satin-like finish and a low-emitting non-porous armor.

**FULLY ASSEMBLED UNIT**  
 The Breakwater bench with back is manufactured in the USA as a fully assembled unit to provide ultimate stability and avoid damage during transit to the site, saving time and money.

**MATERIALS**  
 Fully-welded commercial-grade steel construction.

	BW24 4ft	BW26 6ft	BW28 8ft
LENGTH (A)	48"	72"	96"
WIDTH	20 1/4"	20 1/4"	20 1/4"
HEIGHT	34 1/8"	34 1/8"	34 1/8"
SEAT HEIGHT	17"	17"	17"
WEIGHT	175 lbs.	200 lbs.	225 lbs.



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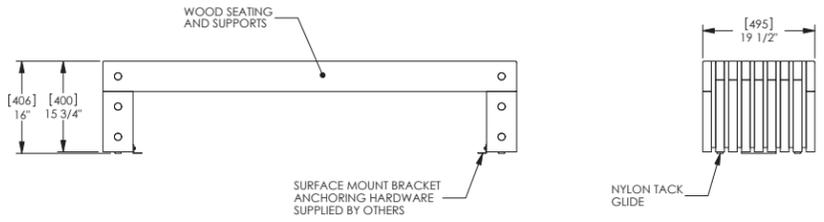
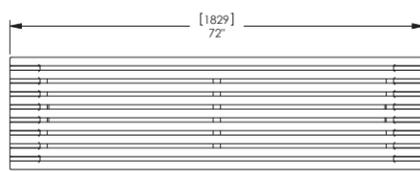


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 Toll-free: 1-800-284-8208 | Phone: 724-284-1213 | Fax: 724-284-1253  
 www.keystoneridgedesigns.com

PRODUCT	BREAKWATER
MANUFACTURER	KEYSTONE RIDGE DESIGNS KEYSTONERIDGEDESIGNS.COM 724.284.1213
LENGTH	6'
FINISH	CHOCOLATE
COST ESTIMATE	\$1455



**Palisade** Bench, 72", Surface Mount, Backless  
 Product Drawing Date: 5/5/2010  
 www.landscapeforms.com Ph: 800.521.2546



PRODUCT	PALISADE
MANUFACTURER	LANDSCAPE FORMS LANDSCAPEFORMS.COM 800.430.6209
LENGTH	6' AND 8'
FINISH	THERMALLY MODIFIED ASH
COST ESTIMATE	\$2810 AND \$3270



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landscapeforms Drawing: PS375-02  
 Dimensions are in inches (mm)

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BENCH  
 DETAILS

D-2

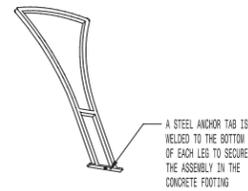
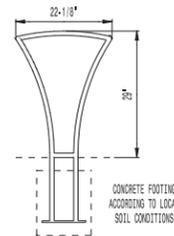


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THIS PRODUCT IS COVERED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS 0722,921\_S



AVAILABLE OPTIONS:  
POWDER COATING  
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,  
CUSTOM COLORS (INCLUDING THE RAL RANGE)

NOTES:

- DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
- ALL FABRICATED METAL COMPONENTS ARE STEEL. SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
- THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED IN THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
- FOR HIGH SALT AMBIENT CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. HOT-DIP GALVANIZING IS PERFORMED FOR VICTOR STANLEY, INC. BY AN EXPERIENCED QUALIFIED FIRM TO WHICH PRODUCTS ARE SHIPPED FOR GALVANIZING. HOT-DIP GALVANIZING INCLUDES AN AGGRESSIVE PRE-TREATMENT AND IMMERSION IN A TANK OF CHARGED LIQUID ZINC AT OR AROUND 860°F (460°C). THE RESULTING SURFACE IS RESISTANT TO RUST BUT HAS SOME UNEVENNESS RESULTING FROM THE BONDING OF THE ZINC TO THE STEEL SURFACE. AS A RESULT, THE POWDER-COATING SURFACE FINISH OVER THAT GALVANIZED SURFACE MAY EXHIBIT BUMPS, UNEVENNESS, AND MAY NOT BE AS SMOOTH AS THE STANDARD FINISH; THIS UNEVEN AND INCONSISTENT FINISH IS NORMAL FOR GALVANIZING. CONTACT MANUFACTURER FOR DETAILS.
- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
- THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.



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REV. 7/21/15 DRAWN R.G.O., 2015-733

PRODUCT	FREESIA BIKE RACK
MANUFACTURER	VICTOR STANLEY VICTORSTANLEY.COM 800.368.2573
CAPACITY	2 BIKES
FINISH	BRONZE
COST ESTIMATE	\$347 \$427 WITH CROSS BAR



# STREETSCAPE DESIGN STANDARDS

Client:  CITY OF STALLINGS 315 STALLINGS ROAD STALLINGS, NC 28104 (704)821-8557	 PLANNING   ENGINEERING   COMMUNICATIONS  136 Furman Rd. Boone, NC 28607 Ph: 828.386.1866	Project #: Drawn By: Checked By: Scale: Varies
		Issue _____ Date _____ 1 _____ JULY 2022

BIKE RACK DETAILS	D-3
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PRODUCT	MFRN-RS1-N5 5" FIXED ROUND STYLE BOLLARD
MANUFACTURER	MAXIFORCE MAXIFORCEBOLLARDS.COM 410.552.9888
FINISH	ROMAN BRONZE MATTE
COST ESTIMATE	\$860-\$925 BASE MOUNT DEPENDENT



## STREETSCAPE DESIGN STANDARDS

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315 STALLINGS ROAD  
STALLINGS, NC 28104  
(704)821-8557

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Project #:  
Drawn By:  
Checked By:  
Scale: Varies

Issue \_\_\_\_\_ Date \_\_\_\_\_  
1 \_\_\_\_\_ JULY 2022

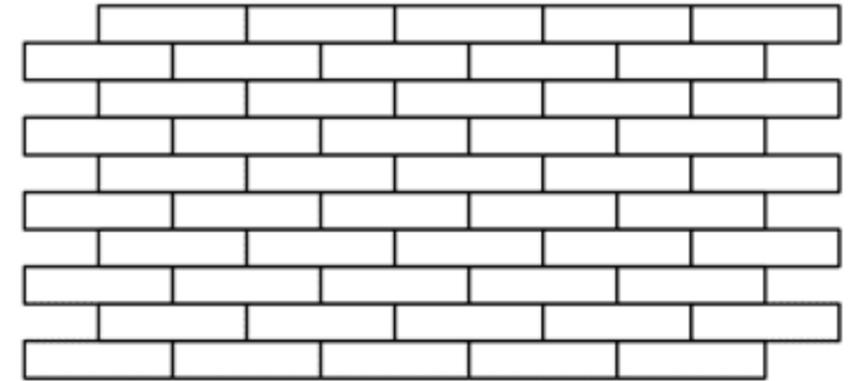
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**BOLLARD  
DETAILS**

**D-4**



RUNNING BOND PATTERN:



PRODUCT	MODULINE
MANUFACTURER	BELGARD BELGARD.COM 888.868.0204
SIZE	4"x18"
FINISH	LINEN
PATTERN	RUNNING BOND (RUNNING LONG DOWN THE PAVER STRIP)
COST ESTIMATE	\$3.65 FROM MANUFACTURER



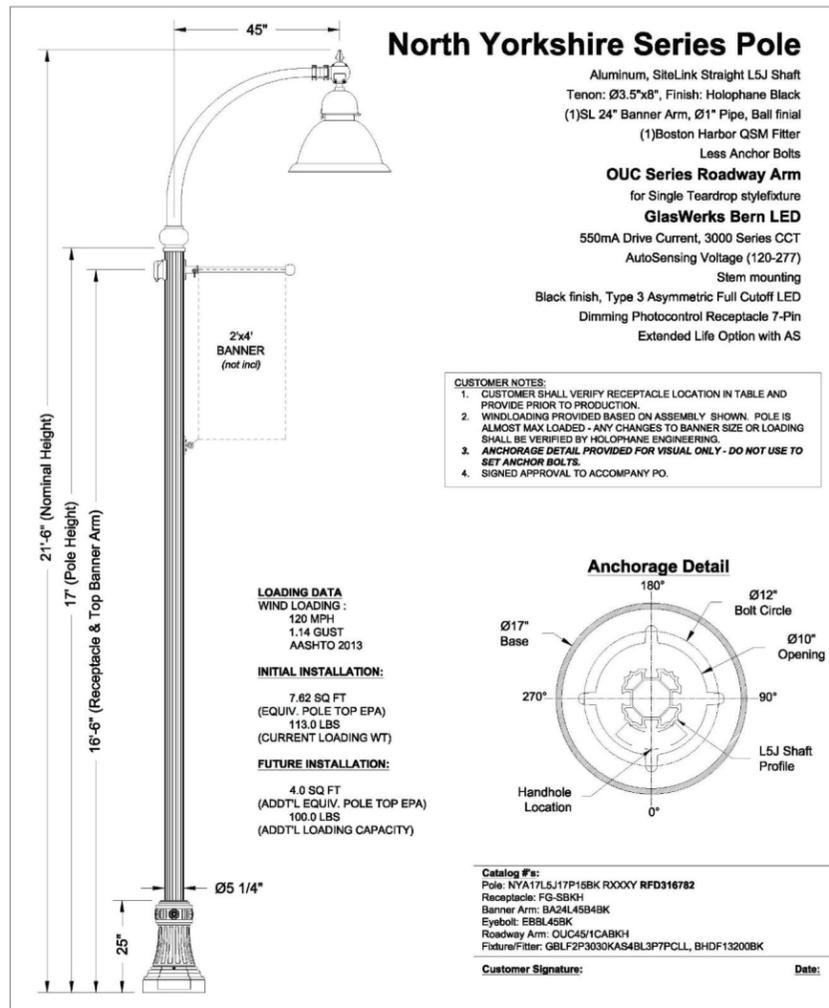
Client:  
  
CITY OF STALLINGS  
315 STALLINGS ROAD  
STALLINGS, NC 28104  
(704)821-8557

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1 \_\_\_\_\_ JULY 2022  
\_\_\_\_\_  
\_\_\_\_\_

**PAVER  
DETAILS**

**D-5**



THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THIS MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A LIST OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE HOLE PATTERN. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



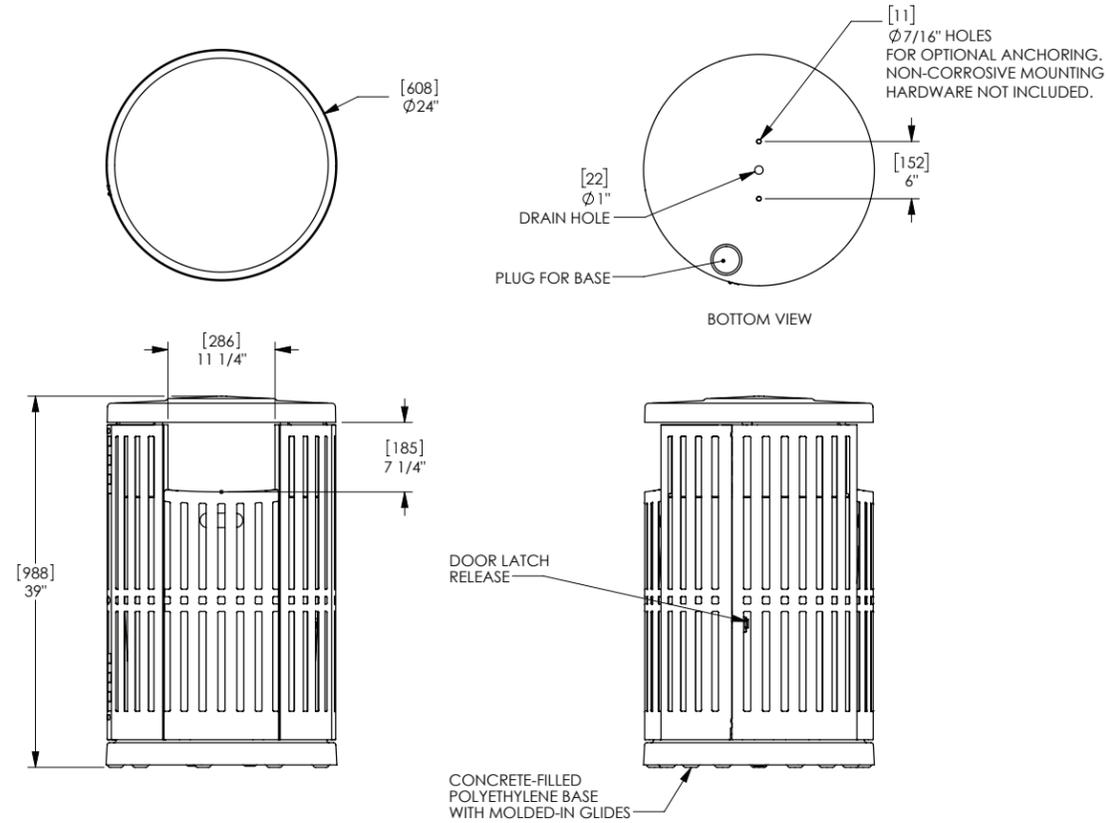
**NOTES:**

- STALLINGS ELECTRICAL UTILITIES ARE DIVIDED BETWEEN DUKE ENERGY AND UNION POWER. ALL LIGHTING WILL NEED FINAL APPROVE THROUGH THE RESPECTIVE PROVIDER.
- ALL LIGHT POLES TO BE ON BREAKAWAY BASES PER NCDOT REGULATIONS.

PRODUCT	NORTH YORKSHIRE SERIES POLE WITH GLASWERKS BERN LED LIGHT
MANUFACTURER	HOLOPHANE HOLOPHANE.ACUIITYBRANDS.COM 855.898.8038
PROVIDER	DUKE ENERGY DUKE-ENERGY.COM 800.653.5307
FINISH	BLACK

STREETSCAPE  
DESIGN STANDARDS

Client:  CITY OF STALLINGS 315 STALLINGS ROAD STALLINGS, NC 28104 (704)821-8557	<p style="font-weight: bold; margin: 0;">DESTINATION BY DESIGN</p> <p style="font-size: 10px; margin: 0;">PLANNING   ENGINEERING   COMMUNICATIONS</p> <p style="font-size: 8px; margin: 0;">136 Furman Rd. Boone, NC 28607 Ph: 828.386.1866</p>	Project #: Drawn By: Checked By: Scale: Varies Issue _____ Date _____ 1 _____ JULY 2022 _____ _____ _____
<p style="font-weight: bold; font-size: 18px; margin: 0;">STREET LIGHT DETAILS</p>		<p style="font-size: 36px; font-weight: bold; margin: 0;">D-6</p>



Drawing: CP362-01  
Dimensions are in inches [mm]

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PRODUCT	CHASE PARK LITTER
MANUFACTURER	LANDSCAPE FORMS LANDSCAPEFORMS.COM 800.430.6209
CAPACITY	36-GALLON
FINISH	NUTMEG
COST ESTIMATE	\$1820



## STREETSCAPE DESIGN STANDARDS

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(704)821-8557

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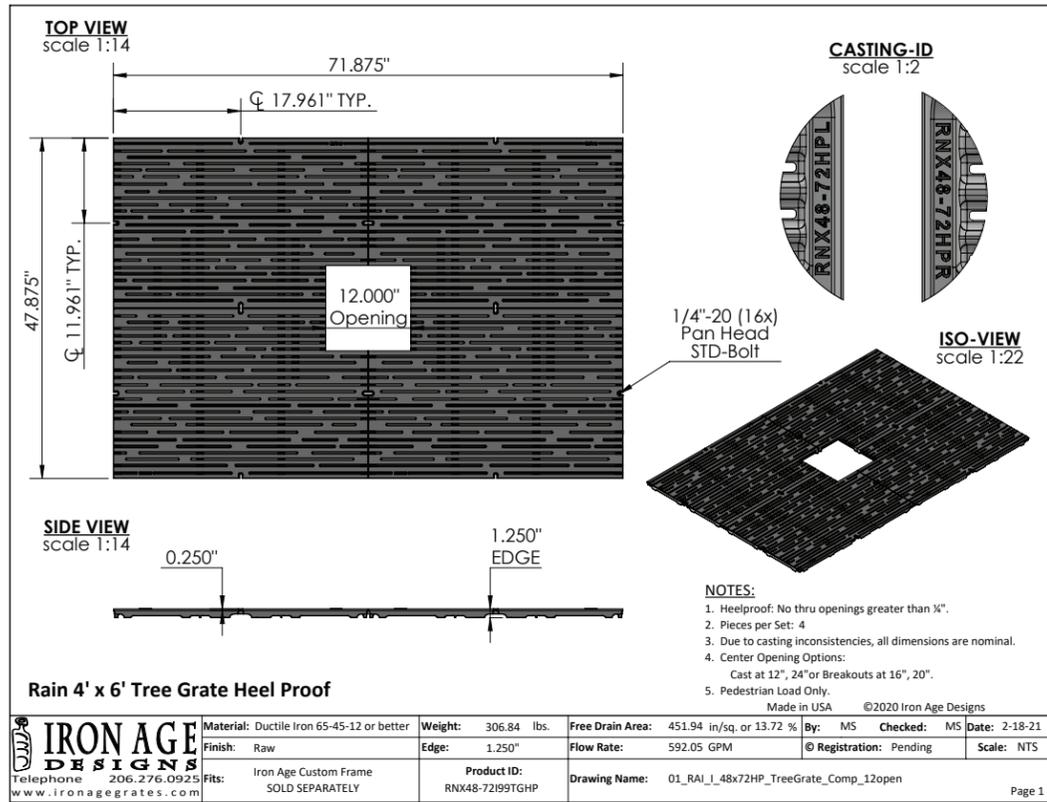
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Project #:  
Drawn By:  
Checked By:  
Scale: Varies

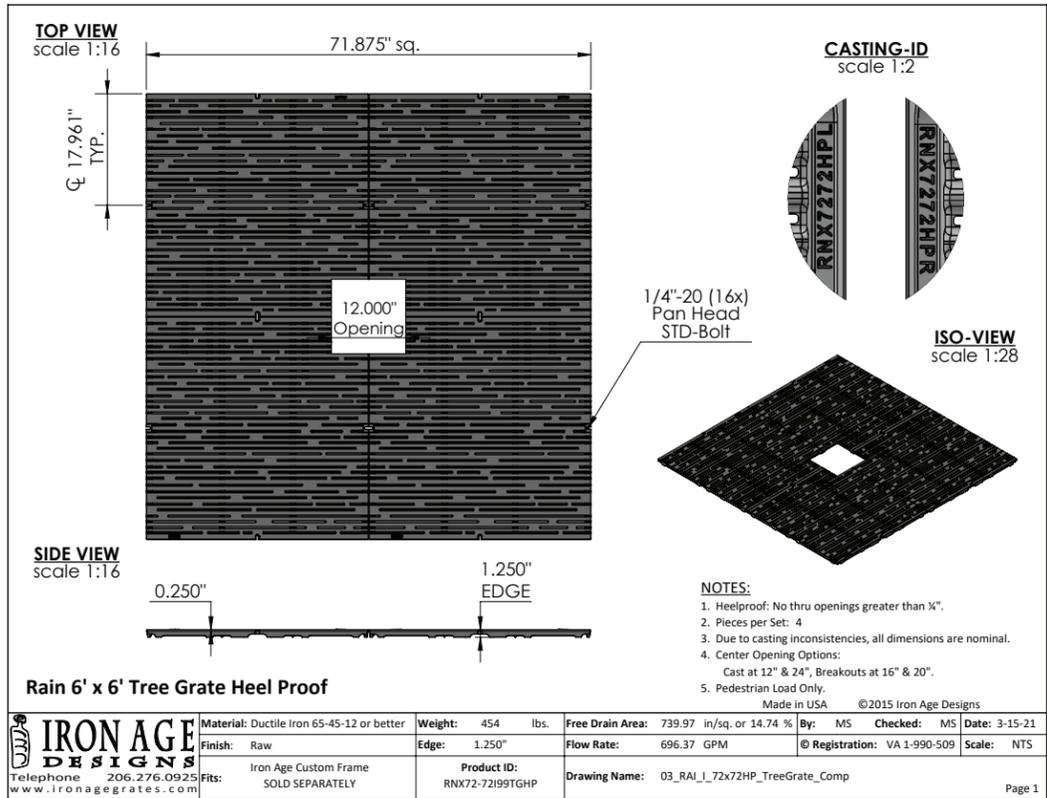
Issue \_\_\_\_\_ Date \_\_\_\_\_  
1 \_\_\_\_\_ JULY 2022

TRASH RECEPTACLE  
DETAILS

D-7



PRODUCT	RAIN
MANUFACTURER	IRON AGE DESIGNS IRONAGEGRATES.COM 877.418.3568
SIZE	4'X6'
FINISH	CAST IRON WITH BAKED-ON OIL
COST ESTIMATE	\$1000-2000 + \$300-400 FOR FRAMES



PRODUCT	RAIN
MANUFACTURER	IRON AGE DESIGNS IRONAGEGRATES.COM 877.418.3568
SIZE	6'X6'
FINISH	CAST IRON WITH BAKED-ON OIL
COST ESTIMATE	\$1000-2000 + \$300-400 FOR FRAMES



**Stallings** STREETScape DESIGN STANDARDS

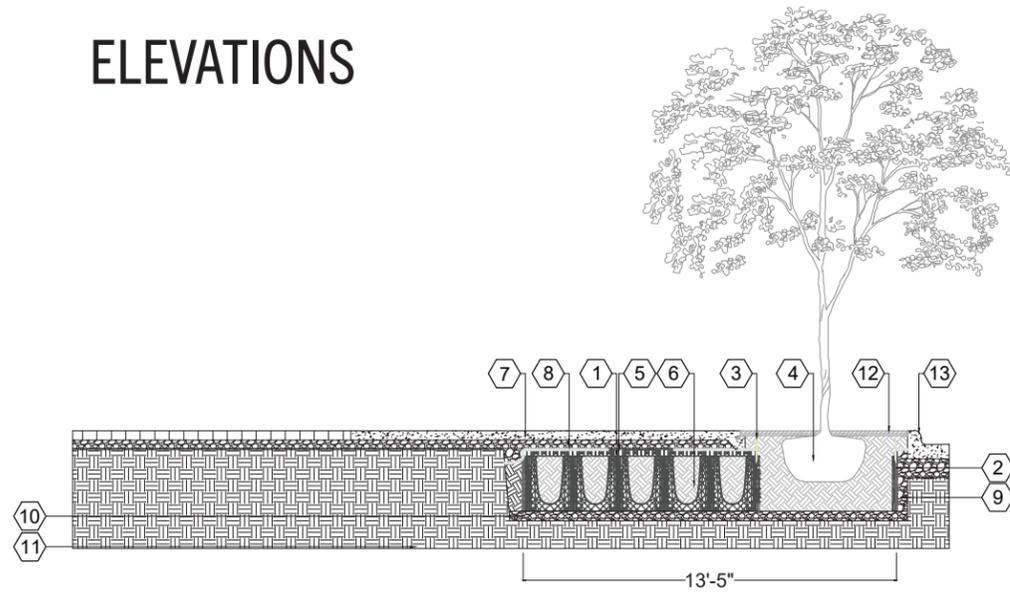
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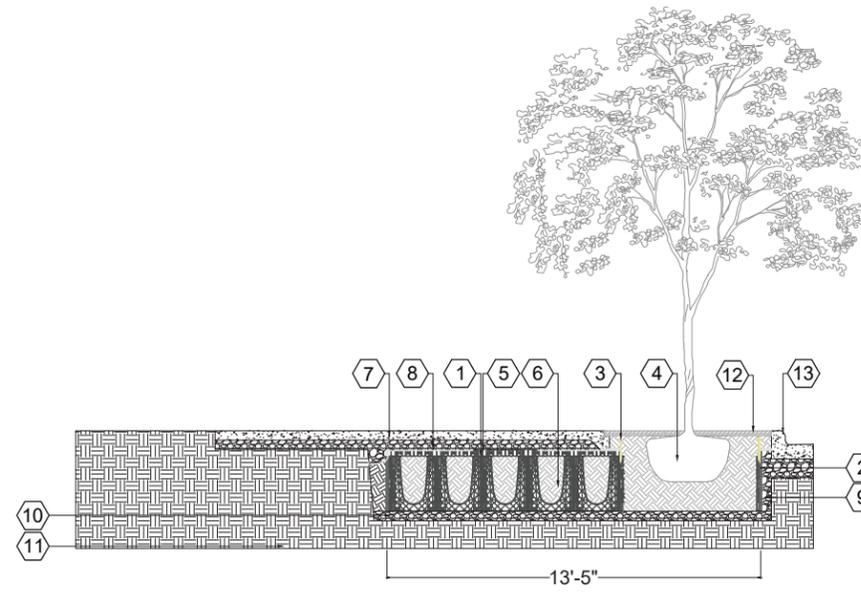
Project #:  
Drawn By:  
Checked By:  
Scale: Varies  
Issue 1 Date JULY 2022

TREE GRATE DETAILS **D-8**

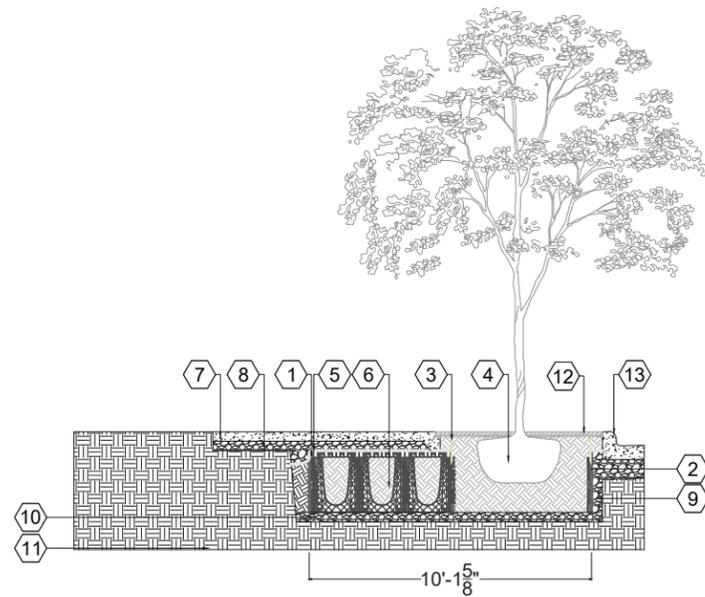
# ELEVATIONS



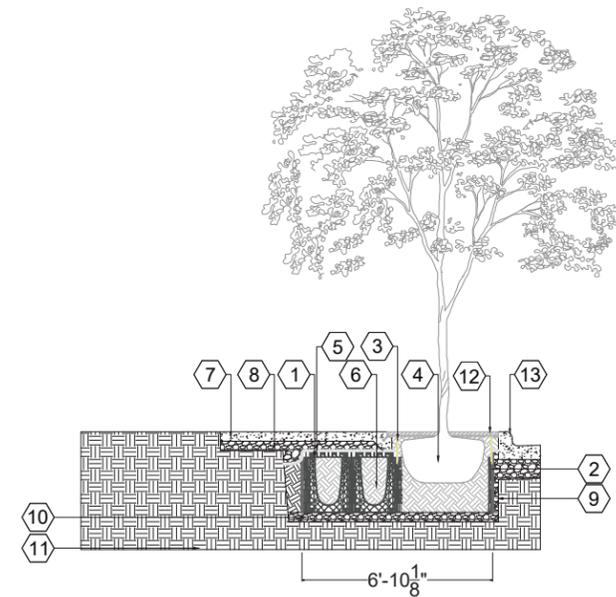
PLAN TYPE 1A



PLAN TYPE 1B



PLAN TYPE 2



PLAN TYPE 3

## ARBORSYSTEM® URBAN TREE PLANTING SYSTEM

1. RootSpace® 600 Series Soil Cell System (24" depth)
2. RootStop™ 600 Root & Moisture Barrier (24" depth)
3. ReRoot™ Ribbed Root Barrier (12" depth)
4. Tree / Rootball
5. CombiGrid® Geocomposite Fabric/Grid
6. Planting Soil
7. Pavement

8. Aggregate Base
9. Compacted Backfill Material
10. Aggregate Sub-base
11. Compacted Native Subgrade
12. Tree Grate (optional)
13. Curb and Gutter

### NOTES:

- SOIL CELLS CAN BE CONFIGURED IN VARIETY OF WAYS DEPENDING ON CONDITIONS AS LONG AS TOTAL ROOT CELL SPACE EQUALS SOIL AMOUNTS OF WITH 400, 600, OR 800 CUBIC FEET.
- SOIL CAPACITY IS DETERMINED PER TREE, SEE FOLLOWING CHARTS FOR MORE DETAILS.
- FOR DESIGN ASSISTANCE CALL 1-865-951-7290 OR EMAIL MATTHEW.WERLE@GREENBLUE.COM.



## STREETSCAPE DESIGN STANDARDS

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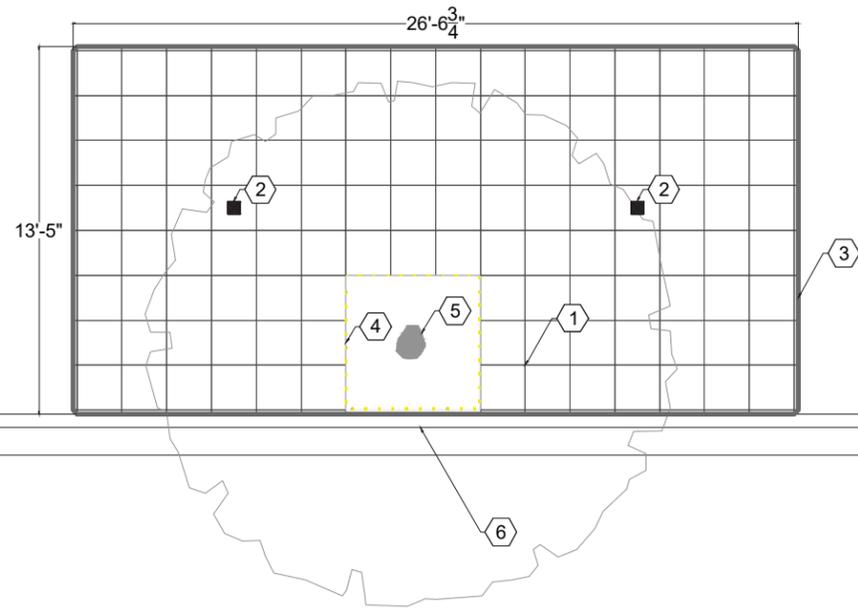
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1 \_\_\_\_\_ JULY 2022

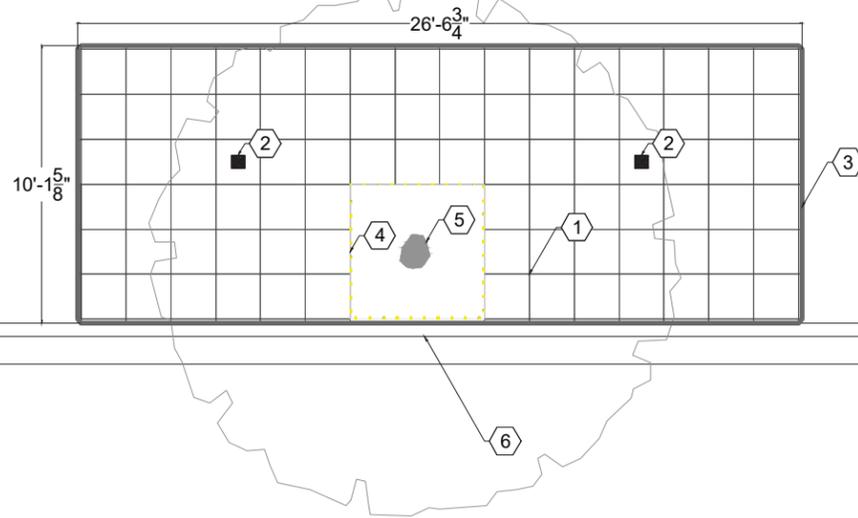
SOIL CELL DETAILS

E-1

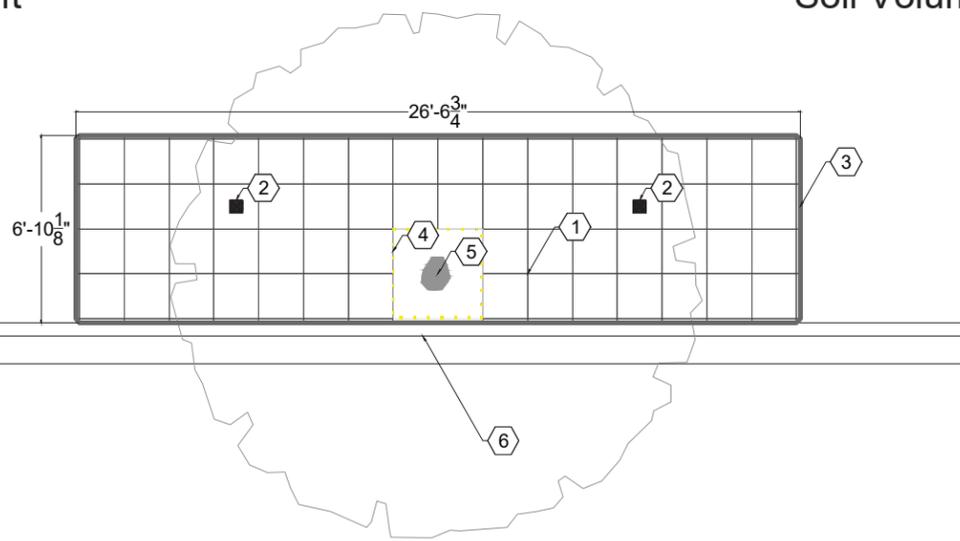
# TREE PIT LAYOUTS



TREE PIT LAYOUT  
Soil Volume: 800 ft<sup>3</sup>



TREE PIT LAYOUT  
Soil Volume: 600 ft<sup>3</sup>



TREE PIT LAYOUT  
Soil Volume: 400 ft<sup>3</sup>

## ARBORSYSTEM® URBAN TREE PLANTING SYSTEM

1. RootSpace® 600 Series Soil Cell System (24" depth)
2. ArborVent™ Aeration/Irrigation Inlet
3. RootStop™ 600 Root & Moisture Barrier (24" depth)
4. ReRoot™ Ribbed Root Barrier (12" depth)
5. Tree
6. Curb and Gutter

## NOTES:

- SOIL CELLS CAN BE CONFIGURED IN VARIETY OF WAYS DEPENDING ON CONDITIONS AS LONG AS TOTAL ROOT CELL SPACE EQUALS SOIL AMOUNTS OF WITH 400, 600, OR 800 CUBIC FEET.
- SOIL CAPACITY IS DETERMINED PER TREE, SEE FOLLOWING CHARTS FOR MORE DETAILS.
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Scale: Varies

Issue \_\_\_\_\_ Date \_\_\_\_\_  
1 \_\_\_\_\_ JULY 2022

SOIL CELL DETAILS

E-2

## 1. SUMMARY

TREES IN URBAN ENVIRONMENTS OFTEN DO NOT REACH FULL SPECIES MATURITY DUE TO THE LACK OF SUITABLE SOIL VOLUME. THE ARBORSYSTEM® IS SPECIFICALLY DESIGNED TO PROVIDE THE NECESSARY ELEMENTS FOR GROWING TREES TO THEIR FULL POTENTIAL IN DENSE URBAN ENVIRONMENTS. THE MAIN COMPONENT OF THE ARBORSYSTEM® IS THE ROOTSPACE® SOIL CELL, WHICH IS A LOAD-BEARING, ENGINEERED PLASTIC, STRUCTURAL CELLULAR SYSTEM COMPRISED OF INTERLOCKING VERTICAL UPRIGHTS AND HORIZONTAL DECKS DESIGNED TO ASSEMBLE TO CREATE A MATRIX UNDER PAVEMENTS. THE INTERCONNECTED SKELETAL MATRIX SHALL PROVIDE VOID SPACES TO ACCOMMODATE FILLING WITH PLANTING SOIL FOR TREE ROOTING AND/OR STORING STORMWATER WHILE SUPPORTING VEHICLE LOADED PAVEMENTS AT THE SURFACE. OTHER MATERIALS USED IN CONJUNCTION WITH THE ROOTSPACE® SOIL CELLS INCLUDE, BUT ARE NOT LIMITED TO, GEOTEXTILE FABRIC, GEOGRID, AGGREGATE, SUB-BASE MATERIAL, BACKFILL, ROOT BARRIERS, AND PLANTING SOIL.

## 2. MATERIALS

**ROOTSPACE® SOIL CELLS:** SOIL CELLS SHALL BE CAPABLE OF BEING FILLED WITH A VARIETY OF SOIL TYPES CREATED FOR THE PURPOSE OF GROWING HEALTHY TREES AND PROVIDING STORMWATER MANAGEMENT. THEY SHALL BE MODULAR, STRUCTURAL SYSTEMS. EACH CELL SHALL BE CAPABLE OF BEING INSTALLED INDEPENDENTLY AND/OR INTERCONNECTED TO THE ADJOINING CELLS, SHALL ACCOMMODATE UTILITIES, STORMWATER, AND OTHER SITE FEATURES AT A NEW TREE PLANTING SITE. THE CELLS SHALL BE CAPABLE OF SUPPORTING LOADS UP TO AND INCLUDING AASHTO H-20/HS-20, H-25/HS-25 (UNITED STATES), OR CSA-S6 87.5 KN (CANADA) WHEN USED IN CONJUNCTION WITH APPROVED PAVEMENT PROFILES. THE CELLS SHALL BE CAPABLE OF PROVIDING A LARGE VOLUME OF PLANTING SOIL THAT DOES NOT INHIBIT OR PREVENT THE PLACEMENT AND COMPACTION OF PLANTING SOIL, NOR THE MOVEMENT AND GROWTH OF ROOTS. THE CELLS WILL ALLOW THE MOVEMENT OF WATER WITHIN THE PROVIDED SOIL VOLUME, INCLUDING LATERAL CAPILLARY MOVEMENT.

**ROOTBALL AERATION/IRRIGATION PIPING SYSTEM:** A PERFORATED PIPING SYSTEM SHALL BE USED FOR THE CIRCULATION OF AIR AND DISTRIBUTION OF WATER AND NUTRIENTS AROUND THE TREE ROOTBALL. IT IS CONNECTED TO A SURFACE INLET AT GRADE, TYPICALLY WITHIN THE TREE PIT OPENING.

**SOIL AERATION/IRRIGATION SYSTEM:** A PIPE AND INLET SYSTEM SHALL BE USED TO PROVIDE A MEANS OF GETTING AIR AND WATER INTO THE SOIL, AND A MEANS OF ALLOWING ORGANIC GASES, FROM THE DECAY OF ORGANIC MATTER WITHIN THE SOIL, TO ESCAPE. IT IS CONNECTED TO A SURFACE INLET AT THE STREET LEVEL.

**SUB-DRAINAGE PIPING SYSTEM:** AS REQUIRED FOR DRAINAGE OF THE TREE PIT, A PERFORATED UNDER-DRAIN MAY BE CONNECTED TO THE CITY'S STORMWATER SEWER SYSTEM.

**SOIL INSPECTION SYSTEM:** A VERTICAL PIPING SYSTEM MAY BE INSTALLED TO ALLOW FOR THE SAMPLING AND INSPECTION OF THE SOIL AND/OR WATER LEVELS WITHIN THE SOIL CELL SYSTEM. THIS SYSTEM MAY ALSO BE USED AS A MEANS OF ADDING NUTRIENTS TO THE SOIL.

**ROOT AND MOISTURE BARRIER:** A LINEAR MEMBRANE MAY BE INSTALLED TO PREVENT ROOT AND MOISTURE PENETRATION AT CERTAIN SPECIFIED LOCATIONS.

**ROOT BARRIER:** LINEAR ROOT BARRIERS SHALL BE INSTALLED WITH VERTICAL INTEGRAL ROOT TRAINING RIBS AT SPECIFIED LOCATIONS, USUALLY NEAR THE TREE TRUNK AND AT THE SOIL SURFACE.

**PLANTING SOIL:** A CORRECTLY BALANCED UNSCREENED SOIL MIX SHALL PROVIDE OPTIMUM GROWTH CONDITIONS FOR TREE ROOTS WITHIN THE SOIL CELL-MATRIX AND STORMWATER MANAGEMENT AREA AS NEEDED.

**TREE PIT OPENING:** A PAVEMENT OPENING SHALL BE PROVIDED WITHIN WHICH A TREE IS PLANTED.

**TREE PIT:** THE EXCAVATED SPACE SHALL BE FILLED WITH APPROPRIATE SOIL MEDIA FOR TREE PLANTING.



# STREETSCAPE DESIGN STANDARDS

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(704)821-8557

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Project #:

Drawn By:

Checked By:

Scale: Varies

Issue

1

Date

JULY 2022

SOIL CELL DETAILS

E-3

### 3. INSTALLATION

**PRE-INSTALLATION MEETING:** PRIOR TO THE INSTALLATION OF THE SOIL CELL SYSTEM, A MEETING SHALL BE HELD WITH THE GENERAL CONTRACTOR, SOIL CELL SYSTEM INSTALLER, SOIL CELL MANUFACTURER'S TECHNICAL REPRESENTATIVE, THE CITY OR CLIENT REPRESENTATIVE, AND OTHER ENTITIES CONCERNED WITH THE SOIL CELL PERFORMANCE. THE MEETING AGENDA WILL INCLUDE ALL REQUIRED SUBMITTALS, THE SEQUENCE OF INSTALLATION AND THE CONSTRUCTION SCHEDULE, THE COORDINATION WITH OTHERS, AND THE PROCEDURES, DETAILS, AND METHODS OF INSTALLATION.

**PRODUCT DATA:** FOR EACH TYPE OF PRODUCT, THE MANUFACTURER'S PRODUCT LITERATURE SHALL BE SUBMITTED WITH TECHNICAL DATA SUFFICIENT TO DEMONSTRATE THAT THE PRODUCT MEETS THESE SPECIFICATIONS.

**TEST AND EVALUATION REPORTS:** THE RESULTS OF COMPACTION TESTING SHALL BE SUBMITTED TO ALL PARTIES INVOLVED WITH THIS PROJECT.

**MANUFACTURER'S REPORT:** SUBMIT THE MANUFACTURER'S LETTER OF REVIEW AND APPROVAL OF THE PROJECT, INCLUDING SHOP DRAWINGS AND SPECIFICATIONS.

**INSTALLER:** THE WORK SHALL BE PERFORMED BY AN EXPERIENCED INSTALLER WITH A SUCCESSFUL TRACK RECORD IN PERFORMING WORK OF THE SAME SCOPE AND QUALITY AS REQUIRED BY THESE SPECIFICATIONS.

**BULK MATERIALS:** DO NOT DELIVER OR PLACE BACKFILL, SOILS, OR SOIL AMENDMENTS IN FROZEN, WET, OR MUDDY CONDITIONS. BEFORE PROCEEDING WITH FULL-SCALE EXCAVATION WORK, CONFIRM THE EXISTING SOIL QUALITY AND CONDITION. ALSO, DETERMINE THE DRAINAGE CHARACTERISTICS OF THE EXISTING SOIL.

**SOIL CELL INSTALLATION:** THE SOIL CELL SYSTEM COMPONENTS SHALL BE PROTECTED FROM DAMAGE DURING DELIVERY, STORAGE, AND HANDLING. THEY SHALL BE INSTALLED BY THE APPROPRIATE INSTALLER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSTALLATION DIAGRAMS, THE MANUFACTURER'S REPRESENTATIVE, AND PROCEDURES REQUIRED BY THE MANUFACTURER. THE INSTALLER SHALL ENSURE THAT THE MODULES IN CONTACT WITH THE GRANULAR BASE COURSE ARE FIRMLY SEATED, WITH NO ROCKING. THE INSTALLER SHALL ENSURE THAT THE MODULE COMPONENTS ARE MECHANICALLY INTERCONNECTED. ALL DIMENSIONS, QUANTITIES, AND GRADE ELEVATIONS SHALL BE CHECKED AND VERIFIED. IF REQUIRED, INSTALL ROOT BARRIERS AS SHOWN ON THE DRAWINGS. VERIFY THE LOCATION OF ABOVE AND BELOW GROUND UTILITY LINES, INFRASTRUCTURE, OTHER IMPROVEMENTS, AND EXISTING TREES, SHRUBS, AND PLANTS TO REMAIN INCLUDING THEIR ROOT SYSTEMS. IN ADDITION, REFER TO THE MANUFACTURER'S INSTALLATION MATERIALS TO ENSURE THE SAFE AND PROPER INSTALLATION OF THE SYSTEM. IN NO CASE SHALL THE SOIL BE COMPACTED AFTER INSTALLATION WITHIN THE SOIL CELLS.

**CONFLICTS:** IF CONFLICTS ARISE DURING INSTALLATION, STOP WORK, AND NOTIFY ALL THE ENTITIES INVOLVED IN THE PROJECT, IN WRITING, OF THE PROBLEM, AND MAKE RECOMMENDATIONS FOR ACTION. PROCEED WITH WORK ONLY WHEN ACTION IS APPROVED IN WRITING.

### 4. CLEAN UP

THE CONTRACTOR SHALL PERFORM CLEAN UP DURING INSTALLATION AND UPON COMPLETION OF EACH PHASE OF THE WORK. MAINTAIN THE SITE FREE OF SOIL, SEDIMENT, TRASH, AND DEBRIS. REMOVE EXCESS SOIL MATERIALS, DEBRIS, AND EQUIPMENT FROM THE SITE FOLLOWING COMPLETION OF EACH PHASE OF THE WORK. REPAIR DAMAGE TO ADJACENT MATERIALS AND SURFACES RESULTING FROM THE INSTALLATION OF THIS WORK USING MECHANICS SKILLED IN REMEDIAL WORK OF THE CONSTRUCTION TYPE AND TRADES AFFECTED.



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SOIL CELL DETAILS

E-4



**NOTE:**

- ALL ARE CONSIDERED A "LARGE TREE" BY NCDOT BECAUSE TRUNK CALIPER EXCEEDS 4" DIAMETER
- NOT SUITABLE FOR PLANTING BENEATH POWER LINES DUE TO HEIGHT

COMMON NAME	BLACK OAK	SOUTHERN RED OAK	WHITE OAK
SCIENTIFIC NAME	QUERCUS COCCINEA	QUERCUS FALCATA	QUERCUS ALBA
HEIGHT	50'-80'	70'-80'	50'-135'
WIDTH	45'-78'	60'-70'	50'-80'
WHY THIS TREE?	<ul style="list-style-type: none"> <li>• YELLOW FALL COLOR</li> <li>• DROUGHT TOLERANT</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• RED FALL COLOR</li> <li>• DROUGHT TOLERANT</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• BURGUNDY FALL COLOR</li> <li>• DROUGHT TOLERANT</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>
SOIL CELL CAPACITY	800 CF	800 CF	800 CF



## STREETSCAPE DESIGN STANDARDS

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<b>APPROVED TREES</b>		<b>E-5</b>



**NOTE:**

- ALL ARE CONSIDERED A "LARGE TREE" BY NCDOT BECAUSE TRUNK CALIPER EXCEEDS 4" DIAMETER
- NOT SUITABLE FOR PLANTING BENEATH POWER LINES DUE TO HEIGHT

COMMON NAME	TULIP POPLAR	AMERICAN HACKBERRY	SUGARBERRY
SCIENTIFIC NAME	LIRIODENDRON TULIPIFERA	CELTIS OCCIDENTALIS	CELTIS LAEVIGATA
HEIGHT	65'-90'	40'-100'	50'-70'
WIDTH	45'-60'	40'-60'	30'-60'
WHY THIS TREE?	<ul style="list-style-type: none"> <li>• YELLOW FALL COLOR</li> <li>• SUITED FOR MOIST CONDITIONS</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• PERFORMS WELL UNDER ADVERSE CONDITIONS</li> <li>• NATIVE</li> <li>• FLOWERS &gt; SMALL FRUIT</li> </ul>	<ul style="list-style-type: none"> <li>• WIDE SOIL TOLERANCE</li> <li>• NATIVE</li> <li>• TOLERANT OF SOIL COMPACTION + URBAN CONDITIONS</li> <li>• FLOWERS &gt; SMALL FRUIT</li> </ul>
SOIL CELL CAPACITY	800 CF	800 CF	600 CF



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Drawn By:  
Checked By:

Scale: Varies  
Issue \_\_\_\_\_ Date \_\_\_\_\_  
1 \_\_\_\_\_ JULY 2022

APPROVED TREES

**E-6**



**NOTE:**

- ALL ARE CONSIDERED A "LARGE TREE" BY NCDOT BECAUSE TRUNK CALIPER EXCEEDS 4" DIAMETER
- NOT SUITABLE FOR PLANTING BENEATH POWER LINES DUE TO HEIGHT

COMMON NAME	ZELKOVA	YELLOWWOOD	EUROPEAN HORNBEAM	KENTUCKY COFFEE
SCIENTIFIC NAME	ZELKOVA SERRATA 'GREEN VASE'	CLADRASTIS KENTUKEA	CARPINUS BETULUS	GYMNOCLADUS DIOICUS
HEIGHT	60'-80'	30'-50'	40'-60'	60'-75'
WIDTH	40'-50'	30'-50'	30'-40'	40'-50'
WHY THIS TREE?	<ul style="list-style-type: none"> <li>• RESISTANCE TO DUTCH ELM DISEASE</li> <li>• DROUGHT TOLERANT</li> <li>• EASY LEAF CLEANUP IN FALL</li> </ul>	<ul style="list-style-type: none"> <li>• WHITE FLOWERS &gt; DRY SEED PODS</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• SUITED FOR NARROW PLANTING STRIPS</li> </ul>	<ul style="list-style-type: none"> <li>• WIDE SOIL TOLERANCE</li> <li>• DROUGHT TOLERANT</li> <li>• WHITE FLOWER &gt; DRY SEED PODS</li> <li>• NATIVE</li> </ul>
SOIL CELL CAPACITY	800 CF	600 CF	800 CF	800 CF



## STREETSCAPE DESIGN STANDARDS

Client:  CITY OF STALLINGS 315 STALLINGS ROAD STALLINGS, NC 28104 (704)821-8557	 <p><b>DESTINATION BY DESIGN</b>          PLANNING   ENGINEERING   COMMUNICATIONS</p> <p>136 Furman Rd. Boone, NC 28607 Ph: 828.386.1866</p>	Project #: Drawn By: Checked By: Scale: Varies Issue _____ Date _____ 1 _____ JULY 2022 _____ _____ _____
<b>APPROVED TREES</b>		<b>E-7</b>



**NOTE:**

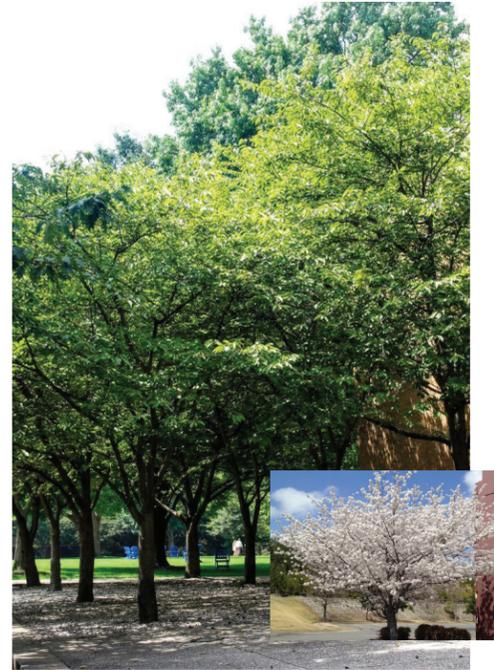
- ALL ARE CONSIDERED A "LARGE TREE" BY NCDOT BECAUSE TRUNK CALIPER EXCEEDS 4" DIAMETER
- NOT SUITABLE FOR PLANTING BENEATH POWER LINES DUE TO HEIGHT

COMMON NAME	WILLOW OAK	RED MAPLE	SHUMARD OAK
SCIENTIFIC NAME	QUERCUS PHELLOS	ACER RUBRUM	QUERCUS SHUMARDII
HEIGHT	50'-80'	40'-120'	50'-70'
WIDTH	30'-40'	30'-50'	30'-40'
WHY THIS TREE?	<ul style="list-style-type: none"> <li>• THE "MYERS PARK TREE"</li> <li>• YELLOW FALL COLOR</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• RED FALL COLOR</li> <li>• WIDE SOIL TOLERANCE</li> <li>• NATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• RED FALL COLOR</li> <li>• DROUGHT TOLERANT</li> <li>• HIGH WILDLIFE VALUE</li> <li>• NATIVE</li> </ul>
SOIL CELL CAPACITY	600 CF	600 CF	800 CF



## STREETSCAPE DESIGN STANDARDS

<p><small>Client:</small></p> <p>CITY OF STALLINGS 315 STALLINGS ROAD STALLINGS, NC 28104 (704)821-8557</p>	 <p><b>DESTINATION BY DESIGN</b> PLANNING   ENGINEERING   COMMUNICATIONS</p> <p><small>136 Furman Rd. Boone, NC 28607 Ph: 828.386.1866</small></p>	<p><small>Project #:</small></p> <p><small>Drawn By:</small></p> <p><small>Checked By:</small></p> <p><small>Scale: Varies</small></p> <p><small>Issue</small> _____ <small>Date</small> _____</p> <p>1 _____ JULY 2022</p> <p>_____</p> <p>_____</p> <p>_____</p>
<b>APPROVED TREES</b>		<b>E-8</b>



**NOTE:**

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- SUITABLE FOR PLANTING BENEATH POWER LINES DUE TO HEIGHT

COMMON NAME	EASTERN REDBUD	JAPANESE FLOWERING CHERRY	AMERICAN HORNBEAM
SCIENTIFIC NAME	CERCIS CANADENSIS	PRUNUS X YEDOENSIS	CARPINUS CAROLINIANA
HEIGHT	20'-30'	25'-30'	20'-30'
WIDTH	25'-35'	20'-35'	20'-35'
WHY THIS TREE?	<ul style="list-style-type: none"> <li>• PINK FLOWERS &gt; DRY SEED PODS</li> <li>• NATIVE</li> <li>• HIGH WILDLIFE VALUE</li> <li>• SUITED TO MOIST SOILS</li> </ul>	<ul style="list-style-type: none"> <li>• PINK FLOWERS &gt; SMALL FRUIT</li> </ul>	<ul style="list-style-type: none"> <li>• NATIVE</li> <li>• TOLERATES FLOODING AND SHADE</li> <li>• WHITE FLOWERS &gt; DRY SEED PODS</li> </ul>
SOIL CELL CAPACITY	400 CF	600 CF	600 CF



# STREETSCAPE DESIGN STANDARDS

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1 \_\_\_\_\_ JULY 2022  
\_\_\_\_\_  
\_\_\_\_\_

APPROVED TREES

**E-9**



**NOTE:**

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- SUITABLE FOR PLANTING BENEATH POWER LINES DUE TO HEIGHT

COMMON NAME	FRINGE TREE	GREEN HAWTHORNE
SCIENTIFIC NAME	CHIONANTHUS RETUSUS	CRATAEGUS VIRIDIS 'WINTER KING'
HEIGHT	15'-25'	20'-35'
WIDTH	10'-20'	20'-35'
WHY THIS TREE?	<ul style="list-style-type: none"> <li>• WIDE SOIL TOLERANCE</li> <li>• WHITE FLOWERS &gt; SMALL FRUIT</li> </ul>	<ul style="list-style-type: none"> <li>• "BALLANTYNE TREE"</li> <li>• LARGELY SPINELESS</li> <li>• WIDE SOIL TOLERANCE</li> <li>• WHITE FLOWERS &gt; SMALL ATTRACTIVE FRUIT</li> </ul>
SOIL CELL CAPACITY	600 CF	600 CF



**STREETSCAPE DESIGN STANDARDS**

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APPROVED TREES

**E-10**





