

OCTOBER 2020

SECTION 8 - STREETScape MASTER PLAN

TABLE OF CONTENTS

8.1 NRD-1 STREETScape MASTER PLAN

8.2 STREETScape GUIDELINES

8.3 INTENT AND PURPOSE

8.4 LANDSCAPE ELEMENTS

8.4.1 STREET TREES

8.4.2 TREE PLACEMENT AND CLUSTERING

Table 4: STREET TREE CATEGORY LIST 1 - 'URBAN WILD'

Table 5: STREET TREE CATEGORY LIST 2 - PLANTER TREES
'WEIRD, WHIMSICAL AND COLORFUL'

Table 6: SPACING AND PROXIMITY CHART

Table 7: STREET TREE DIMENSIONS

Table 8: PALM DIMENSIONS

8.4.3 SHRUBS AND GROUNDcover / UNDERSTORY

Table 6: SHRUBS AND GROUNDcovers / UNDERSTORY LIST

8.4.4 PLANTERS

Table 10: BIOSWALE PLANTING LIST

Diagram 1: WYNWOOD PARKING LANE PLANTER 1 - BIOSWALE WITH
CURB AND GUTTER

Diagram 2: WYNWOOD PARKING LANE PLANTER 2 - BIOSWALE WITH
VALLEY GUTTER

8.4.5 MULCH

8.4.6 IRRIGATION

8.5 HARDSCAPE DESIGN

8.5.1 HARDSCAPE LAYOUT AND SUBSTRUCTURE

Diagram 3: HARDSCAPE DESIGN POINT GUIDE

Diagram 4: TYPICAL HARDSCAPE DESIGN

Diagram 5: TYPICAL HARDSCAPE 1

Diagram 6: TYPICAL HARDSCAPE 2

8.5.2 CORNER CONDITIONS

Illustration 8.1: CORNER CURB RADII ILLUSTRATION

Diagram 7: TYPICAL CORNER CONDITION

Diagram 8: CORNER WITH PLANTER

Diagram 9: CREATIVE CORNER

TABLE OF CONTENTS

8.5.3 CURB CUTS

Diagram 10: CURB CUT 1

Diagram 11: CURB CUT 2

Diagram 12: CURB CUT 3

8.5.4 EXTENDED SIDEWALK

Diagram 13: EXTENDED SIDEWALK

8.5.5 MATERIAL SPECIFICATIONS

Diagram 14: SHARROW MARKING

Diagram 15: BIKE LANE MARKING

8.5.6 CROSSWALKS

Illustration 8.2: CROSSWALK LOCATION ILLUSTRATION

Diagram 16: DECORATIVE CROSSWALK 1

Diagram 17: DECORATIVE CROSSWALK 2

Diagram 18: MIDBLOCK CROSSWALK

8.6 FURNISHING ELEMENTS

8.6.1 LIGHTING

Diagram 19: STANDARD LIGHT POST LOCATION

8.6.2 SEATING LITTER BINS, BIKE RACKS, PARKLETS AND WAYFINDING

Diagram 20: STANDARD LITTER RECEPTACLE LOCATION

Diagram 21: STANDARD BENCH LOCATION

Diagram 22: STANDARD BIKE RACK LOCATION

8.6.3 ART

8.6.4 UTILITIES

8.7 GUIDELINES SPECIFIC TO STREET TYPES

Illustration 8.3: STREET TYPE ILLUSTRATION

Illustration 8.4: BIKE LANES AND TRAFFIC DIRECTION ILLUSTRATION

Illustration 8.5: HIGH-VOLTAGE POWER ILLUSTRATION

8.7.1A Street Type 1A

8.7.1B Street Type 1B

8.7.2 Street Type 2

8.7.3 Street Type 3

8.7.4A Street Type 4A

8.7.4B Street Type 4B

TABLE OF CONTENTS

8.7.4C Street Type 4C

8.7.5 Street Type 5

8.7.6 Street Type 6

Diagram 23: STREET TYPE 6 CORNER CONDITION

8.7.7 Street Type 7

Diagram 24: STREET TYPE 7 PARKING LANE PLANTER 3 - BIOSWALE

8.7.8 Street Type 8

Diagram 25: STREET TYPE 8 HARDSCAPE DESIGN

Diagram 26: STREET TYPE 8 HARDSCAPE DIAGRAM

Diagram 27: STREET TYPE 8 PLANTER DESIGN

Diagram 28: STREET TYPE 8 BENCH LOCATION

8.7.9 Street Type 9

Diagram 29: STREET TYPE 9 HARDSCAPE DESIGN

Diagram 30: STREET TYPE 9 CORNER CONDITION

8.7.10 Street Type 10

Diagram 31: STREET TYPE 10 BIKE LANE INTERSECTION

8.7.11 Street Type 11

8.7.12 Street Type 12

8.7.13 Street Type 13

8.7.14 Street Type 14

8.8 PLAY STREET

Diagram 32: WYNWOOD PLAY STREET

8.9 MAINTENANCE PLAN

8.9.1 WYNWOOD LANDSCAPE MAINTENANCE: TREE TYPE SPECIFIC CRITERIA

8.9.2 LANDSCAPE MAINTENANCE STANDARDS

8.9.3 HARDSCAPE MAINTENANCE STANDARDS

Diagram 33: LANDSCAPE MAINTENANCE DIAGRAM

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OCTOBER 2020

8.1 NRD-1 STREETSCAPE MASTER PLAN

The Wynwood District is transitioning from an Industrial District into an active, diverse, mixed-use Neighborhood. The current character of the Neighborhood is demarcated, traversed, and connected by atypical block compositions and narrow Right-of-Ways (R.O.W.s) attributed to the Industrial past. The Neighborhood’s predominately zoned fifty-foot (50’) R.O.W. combined with a high percentage of nonconforming parcels makes it a challenge to balance feasible development and an adequate pedestrian environment.

The NRD-1 Streetscape Master Plan will create a series of R.O.W.s, establish appropriate Setback areas and ideal sidewalk conditions to promote pedestrian activity for the future of the Wynwood District. R.O.W. Street Types have been established by the City’s Planning and Zoning Department and Public Works Department, and applied to Wynwood’s Thoroughfare network based on R.O.W. width and conditions, as identified in Illustration 8.3: Guidelines to Specific Street Types. The NRD-1 Streetscape Master Plan will also serve as a set of Design Guidelines to establish a blueprint for a “living street” consisting of street trees and other streetscape enhancements to the District.

a. NRD-1 Street Hierarchy

The NRD-1 Street Master Plan acknowledges the relative importance of several significant Corridors, known as Wynwood Corridors and NRD-1 Corridors. Due to their importance, these Corridors are given established setback provisions that are different from that of the underlying Transect Zone.

NRD-1	STREETS	SETBACKS
Wynwood Corridors	NW 29 th Street NW 20 th Street	Principal and Secondary Frontage Setback is ten (10) feet
NRD-1 Corridors	NW 2 nd Avenue NW 5 th Avenue	Principal Frontage Setback is zero (0) feet
Wynwood Thoroughfares	All other street R.O.W.s within NRD-1 that are not specified as Corridors above.	Principal and Secondary Frontage Setback is five (5) feet

8.2 STREETSCAPE GUIDELINES

The NRD-1 Streetscape Guidelines shall serve as a set of standards to improve and enhance adjacent R.O.W. conditions abutting new Development and Adaptive Use of existing Buildings that require Public R.O.W. improvements throughout the Wynwood Neighborhood. These enhancements are in conjunction with the overall intent established in the NRD-1 and will provide provisions for street trees and landscape, paving materials and hardscape, and furnishing and lighting elements. The NRD-1 Streetscape Guidelines consist of the following volumes:

- Volume 1:** Design Guidelines
- Volume 2:** Data Analysis
- Volume 3:** Design Resources
- Volume 4:** Woonerf Schematic Design

8.3 INTENT AND PURPOSE

- a. Strengthen a sense of place, neighborhood identity, and aesthetics through the identification of strategic tree species and planting locations at gateways and along thoroughfares. This will enhance the identity of the Wynwood District along major corridors.
- b. Identify opportunities for landscape in the Right-of-Way which interact with the surrounding art on private property, without conflicting or obstructing visibility of art applied to building exteriors.
- c. Building the community’s resilience to the impacts of climate change through tree canopy to reduce the heat island effect, capture stormwater runoff, and reintroduce native plant species.
- d. Establish minimum planting standards above and beyond those in Miami 21 and industry best practices for planting treatment and irrigation.
- e. Promoting Green Infrastructure opportunities to mitigate urban stormwater runoff throughout the District.
- f. Maintaining and enhancing the quality of air, water and land through a mature tree canopy’s ability to sequester carbon and release oxygen.
- g. Promoting and encouraging actions that reduce greenhouse gas emissions through the creation of attractive and comfortable pedestrian and cycling routes to encourage the use of alternate modes of transportation.
- h. Improving the pedestrian experience with appropriate street furniture, trash receptacles, street lighting, and other streetscape features.
- i. Encouraging integration of surrounding neighborhoods with specific design interventions.
- j. Comply with AASHTO, ANSI and ADA Standards throughout.

8.4 LANDSCAPE ELEMENTS

Refer to **Street Type Illustration 8.3** and additional information per street on **Section 8.7**.

8.4.1 Street Trees

Street trees shall be provided along all roadways. Street Tree species shall be selected from Street Tree Category Lists 1 and 2, depending on Street Type and location.

Table 4: Street Tree Category List 1 is the ‘Urban Wild’ primary native palette for all street types.

Table 5: Street Tree Category List 2 is the Planter Trees ‘Weird and Whimsical’ and ‘Colorful’ secondary palette, to be used only in Planters.

The minimum number of Street Trees required are described in **8.4.2.a** and **8.4.2.b**.

Follow **Table 6:** Spacing and Proximity Chart for Street Tree Spacing parameters.

8.4.2 Tree Placement and Clustering

Clustering trees, rather than spacing them equally, allows for flexible planting distribution affording opportunities to open views to art and architecture in a district known for its iconic

facades. Clustering trees also provide the necessary tree canopy to create shady zones of respite, and encourages root systems to intertwine, creating a more hurricane resilient streetscape.

- a. On frontages with a verge width of four (4) feet:
 1. Street Trees must achieve a maximum average spacing of twenty (20) feet on center.
 2. Street Trees shall be provided on the verge with the tree centerline thirty (30) inches from back of curb, parallel to the road.
 3. Maximum forty (40) percent of the Street Trees meeting this requirement may be Palms.
- b. On frontages with a verge width of five (5) feet or greater:
 1. Street Trees must achieve a maximum average spacing of twenty-five (25) feet on center.
 2. Street Trees shall be provided on the verge with the tree centerline forty-two (42) inches from back of curb, parallel to the road.
 3. On Street Type 8, Street Trees shall be provided on the verge with the tree centerline forty-two (42) inches from back of detectable warning plate, parallel to the road. Refer to Guidelines Specific to Street Types **Section 8.7**.
 4. Maximum thirty (30) percent of the Street Trees meeting this requirement may be Palms.
- c. Except for palms and under power lines, Street Trees of the same category size, as identified on Tables 4 and 5, must not be repeated sequentially. Palms may be planted sequentially up to three (3) times.
- d. Excluding palms, Street Trees species must not be repeated within one hundred and fifty (150) linear feet of frontage, including adjacent parcels.
- e. The maximum distance between all Street Tree category sizes (excluding palms) in any frontage may be fifty (50) linear feet with the recommendation from the Wynwood Design Review Committee (WDRC) and in coordination with Art mural artist. EXCEPTION: A drive way entrance, up to twenty three (23) feet wide, with adjacent visibility triangles.
- f. The distance between palms and all Street Tree category sizes is the maximum average spacing distance per verge width, refer to **8.4.2.a** and **8.4.2.b**; unless otherwise noted in Guidelines Specific to Street Types **Section 8.7**.
- g. The maximum distance between trees or palms, defined in **8.4.2.e** and/or **8.4.2.f**, shall not be proposed sequentially along a frontage, a minimum ten (10) linear feet of distance variation is required between the trees.
- h. The maximum distance from the corner property line to the first Street Tree shall be thirty (30) linear feet. EXCEPTION: A drive way entrance, up to twenty three (23) feet wide, with adjacent visibility triangles.
- i. Refer to Overhead Power Lines columns on Table 4 and Table 5 for Street Trees allowed underneath power lines.
- j. Beneath high voltage (50kV and above) transmission lines installed independent of underbuilt distribution lines, tree height and spread shall not exceed the minimum approach distances specified in the current ANSI (American National Standards Institute) Z133.1 Standards. Refer to **Illustration 8.5: High-Voltage Power Illustration**.

OCTOBER 2020

Table 4: Street Tree Category List 1- 'Urban Wild'

SCIENTIFIC NAME	COMMON NAME	OVERHEAD POWER LINES	VERGE WIDTH (MINIMUM) FEET	TREE OPENING WIDTH INCHES
PALMS				
<i>Coccothrinax argentata</i>	Florida Silver Palm	allowed	4'	36"
<i>Sabal palmetto</i>	Sabal Palm	not allowed	4'	24"
<i>Leucothrinax morrisii</i>	Key Thatch Palm	allowed	4'	24"
<i>Thrinax parviflora</i>	Florida Thatch Palm	allowed	4'	24"
<i>Thrinax radiata</i>	Thatch Palm	allowed	4'	24"
SMALL				
<i>Acacia choriophylla</i>	Cinnecord	allowed	4'	24"
<i>Ardisia escallonioides</i>	Marlberry	allowed	4'	24"
<i>Bourreria ovata</i>	Bahama Strongbark	allowed	4'	24"
<i>Canella winterana</i>	Wild Cinnamon	not allowed	4'	24"
<i>Calypttranthes pallens</i>	Spicewood	allowed	4'	24"
<i>Eugenia axillaris</i>	White Stopper	allowed	4'	24"
<i>Eugenia foetida</i>	Spanish Stopper	allowed	4'	24"
<i>Eugenia rhombea</i>	Red Stopper	allowed	4'	24"
<i>Gymnanthes lucida</i>	Crabwood	allowed	5'	24"
<i>Myrcianthes fragrans</i>	Simpson Stopper	allowed	4'	24"
MEDIUM				
<i>Caesalpinia granadillo</i>	Bridal Veil	not allowed	4'	36"
<i>Chrysophyllum oliviforme</i>	Satinleaf	not allowed	4'	36"
<i>Coccoloba diversifolia</i>	Pigeon Plum	not allowed	4'	36"
<i>Exothea paniculata</i>	Inkwood	not allowed	4'	36"
<i>Krugiodendron ferreum</i>	Black Ironwood	not allowed	4'	36"
<i>Pimenta dioica</i>	Allspice	not allowed	4'	36"
<i>Pimenta racemosa</i>	Bayrum	not allowed	4'	36"
<i>Prunus myrtifolia</i>	West Indian Cherry	not allowed	4'	36"
<i>Sideroxylon salicifolium</i>	Willow Busic	not allowed	4'	36"
<i>Tabebuia bahamensis</i>	White Trumpet Tree	allowed	4'	36"
LARGE				
<i>Clusia rosea</i>	Autograph Tree	not allowed	5'	48"
<i>Conocarpus erectus</i>	Green Buttonwood	not allowed	5'	48"
<i>Guapira discolor</i>	Bloily	not allowed	5'	48"
<i>Simarouba glauca</i>	Paradise Tree	not allowed	5'	48"
EXTRA LARGE				
<i>Lysiloma latisiliquum</i>	Wild Tamarind	not allowed	6'	60"
<i>Lysiloma sabicu</i>	Cuban Tamarind	not allowed	6'	60"
<i>Sideroxylon foetidissimum</i>	Mastic Tree	not allowed	6'	60"
<i>Swietenia mahagoni</i>	Mahogany	not allowed	6'	60"

OCTOBER 2020

Table 5: Street Tree Category List 2 - Planter Trees ‘Weird, Whimsical and Colorful’

SCIENTIFIC NAME	COMMON NAME	OVERHEAD POWER LINES	VERGE WIDTH (MINIMUM) FEET	TREE OPENING WIDTH INCHES
SMALL				
<i>Senna surattensis</i>	Glaucous Cassia	allowed	4'	24"
MEDIUM				
<i>Brachychiton acerifolius</i>	Flame Tree	not allowed	4'	36"
<i>Bulnesia arborea</i>	Verawood	not allowed	4'	36"
<i>Cassia bakeriana</i>	White Sapote	not allowed	4'	36"
<i>Calliandra haematocephala</i>	Red Powderpuff	allowed	4'	36"
<i>Calliandra haematocephala alba</i>	White Powderpuff Tree	allowed	4'	36"
<i>Cassia leptophylla</i>	Golden Medallion Tree	not allowed	4'	36"
<i>Guaiacum sanctum</i>	Lignum Vitae	allowed	4'	36"
<i>Lagerstroemia speciosa</i>	Queen Crape Myrtle	not allowed	4'	36"
<i>Lonchocarpus violaceus</i>	Lancepod	not allowed	4'	36"
<i>Pithecellobium tortum</i>	Brazilian Rain Tree	allowed	4'	36"
<i>Polyalthia longifolia</i>	Mast Tree	not allowed	4'	36"
<i>Tibouchina granulosa</i>	Purple Glory Tree	allowed	4'	36"
LARGE				
<i>Cananga odorata</i>	Ylang ylang	not allowed	5'	48"
<i>Cassia fistula</i>	Golden Shower Tree	not allowed	5'	48"
<i>Cassia grandis</i>	Pink Shower	not allowed	5'	48"
<i>Cassia javanica</i>	Pink Shower	not allowed	5'	48"
<i>Cassia leptophylla</i>	Golden Medallion Tree	not allowed	5'	48"
<i>Colvillea racemosa</i>	Colville's Glory	not allowed	5'	48"
<i>Dracaena draco</i>	Dragon Tree	allowed	5'	48"
<i>Jacaranda mimosifolia</i>	Jacaranda	not allowed	5'	48"
EXTRA LARGE				
<i>Adansonia digitata</i>	Baobob	not allowed	6'	180"
<i>Beaucarnea recurvata</i>	Ponytail Palm	not allowed	6'	84"
<i>Coccoloba pubescens</i>	Big Leaf Seagrape	not allowed	6'	60"
<i>Copernicia baileyana</i>	Bailey Palm	not allowed	6'	96"
<i>Crescentia alata</i>	Mexican Calabash	not allowed	6'	60"
<i>Elaeis guineensis</i>	African Oil Palm	not allowed	6'	84"
<i>Eucalyptus deglupta</i>	Rainbow Eucalyptus	not allowed	6'	60"
<i>Ficus aurea</i>	Strangler Fig	not allowed	6'	180"
<i>Kigelia pinnata</i>	Sausage Tree	not allowed	6'	180"
<i>Pseudobombax ellipticum</i>	Shaving Brush Tree	not allowed	6'	60"
<i>Spathodea campanulata</i>	African Tulip Tree	not allowed	6'	60"

Table 6: Spacing and Proximity Chart

- A) *Street Tree Spacing:* Street Trees shall be spaced at an on-center trunk minimum distance as per table below:

TREE SPACING LATERAL PROXIMITY BETWEEN TREE CATEGORIES

	PALMS	SMALL TREE	MEDIUM TREE	LARGE TREE	EXTRA LARGE TREE
PALMS	5'	8'	10'	10'	12'
SMALL TREE	8'	8'	10'	10'	12'
MEDIUM TREE	8'	10'	10'	12'	15'
LARGE TREE	10'	10'	12'	16'	20'
EXTRA LARGE TREE	12'	12'	15'	20'	25'

Table 7: Street Tree Dimensions

- A) *Tree Dimensions:* Street Trees must meet the following dimensions, each of which are considered a minimum:

STREET TREE DIMENSIONS

	OVERALL HEIGHT (FEET)	CALIPER (INCHES)	CLEAR TRUNK (FEET)
SMALL TREE	10'	1.5"	3'
MEDIUM TREE	12'	2"	4'
LARGE TREE	14'	3"	4.5'
EXTRA LARGE TREE	16'	4"	5'

- B) *Tree Quality:* Plant material used in accordance with the provisions of this section of the code shall conform to, or exceed, the standards for Florida Grade No. 1 as provided in the most current edition of "Grades and Standards for Nursery Plants, Parts I and II," prepared by the State of Florida Department of Agriculture and Consumer Services.
- C) *Root Ball:* Street Tree root balls and canopy spread shall be in accordance with Florida Grade No. 1 standards based on caliper size.

Table 8: Palm Dimensions

- A) *Palm Dimensions:* Palms must meet the following dimensions, each of which are considered a minimum:

PALM DIMENSIONS

	CLEAR TRUNK (FEET)
SMALL PALMS	6'
SABAL PALMS	18'

- B) Sabal Palms shall have character curve(s) with no less than four (4) feet deviation from trunk flare. When planting multiple Palms sequentially, they must vary a minimum of three (3) ft in clear trunk height while maintaining the minimum clear trunk height requirement of six (6) feet.

8.4.3 Shrubs and Groundcovers/Understory

Shrubs and Groundcovers shall only be provided in Planters and shall be selected from **Table 6: Shrubs and Groundcovers/Understory List** .

- a. All shrubs shall be a minimum of eighteen (18) inches in height at time of installation.
- b. Any combination of species, from Table 6: Shrubs and Groundcovers/Understory List can be installed in Planters to meet the following diversity criteria per square feet of Planter area.

Area of Planter in Square Feet	Minimum Number of Species
0-50	1
50-100	2
100-200	4
200-400	6
400-1,000	8
More than 1,000	10

- c. Groundcover plants shall be installed in such a manner as to present a finished appearance and reasonably complete coverage within one (1) year after planting. *Turfgrass is not permitted on the streetscape.*

Table 6: Shrubs and Groundcovers/Understory List

SCIENTIFIC NAME	COMMON NAME	NATIVE
UNDERSTORY		
<i>Arachis glabrata, Benth</i>	Perennial Peanut	N
<i>Asclepias</i>	Milkweed	Y
<i>Borrichia frutescens</i>	Silver Sea-Oxeye-Daisy	Y
<i>Chrysobalanus icaco</i>	Cocoplum	Y
<i>Clusia rosea 'Nana'</i>	Dwarf Clusia	Y
<i>Crinum asiaticum</i>	Crinum	N
<i>Ernodea littoralis</i>	Golden Creeper	Y
<i>Flaveria linearis</i>	Narrowleaf Yellowtops	Y
<i>Gaillardia x grandiflora</i>	Blanket Flower	Y
SCIENTIFIC NAME	COMMON NAME	NATIVE
<i>Galphimia gracilis</i>	Thryallis	N
<i>Helianthus debilis</i>	Dune Sunflower	Y
<i>Hymenocallis latifolia</i>	Spider Lily	Y
<i>Lantana depressa</i>	Gold Lantana	Y
<i>Muhlenbergia capillaris</i>	Pink Muhlygrass	Y
<i>Peperomia obtusifolia</i>	Peperomia	Y
<i>Phyla nodiflora</i>	Frogfruit	Y
<i>Pilea microphylla</i>	Rockweed	Y
<i>Psychotria ligustrifolia</i>	Bahama Coffee	Y
<i>Psychotria nervosa</i>	Wild Coffee	Y
<i>Salvia coccinea</i>	Tropical Sage	Y
<i>Senna mexicana</i>	Mexican Senna	Y
<i>Serenoa repens</i>	Saw Palmetto	Y
<i>Spartina bakeri</i>	Cordgrass	Y
<i>Stachytarpheta jamaicensis</i>	Blue Porterweed	Y
<i>Suriana maritima</i>	Baycedar	Y
<i>Tripsacum dactyloides</i>	Fakahatchee Grass	Y
<i>Zamia integrifolia</i>	Coontie	Y

OCTOBER 2020

8.4.4 Planters

Planters are required throughout the district on corner conditions and adjacent to midblock crosswalks. For planters within the Visibility Triangles, a maximum height of eighteen (18) inches shall be maintained. A maximum height of thirty-six (36) inches shall be maintained on all other areas. Planting material shall be selected from **Table 5: Street Tree Category List 2 Planter Trees** and **Table 6: Shrubs and Groundcovers/Understory List** for all Planters except Wynwood Parking Lane planters.

A development may coordinate the adjustment of street parking to accommodate Wynwood Parking Lane planters within their frontage. Planting materials for the Wynwood Parking Lane planters shall be selected from **Table 10: Bioswale Planting list**.

- a. Wynwood Parking Lane Planters are bioswales and shall be installed throughout the District at locations approved by the City of Miami.
 1. On Street Types 1A , refer to **Diagram 1: Wynwood Parking Lane Planter 1- Bioswale with Curb and Gutter**. On Street Types 1B **Diagram 2: Wynwood Parking Lane Planter 2- Bioswale with Valley Gutter**.
 2. On Street Type 7, NW 2nd Avenue bus stops, refer to **8.7.7** for Wynwood Parking Lane Planter 3 Bioswale on Street Type 7.
 3. Prior to Wynwood Parking Lane Planter installation, drainage system shall be examined including the types and sizes of pipes to conform to a minimum twenty-five (25) year storm event. Locations of utilities must be confirmed by an underground survey at the time of design and implementation.
 4. Prior to Wynwood Parking Lane Planter 1, 2, and 3 installation, a well-defined/robust "soft digs" protocol shall take place to verify location of existing utilities so ultimate location of overflow pipes and/or any other below grade basins to address possible conflicts with design.
 5. Wynwood Parking Lane Planters 1, 2, and 3 design shall satisfy percolation tests required by Public Works Department.

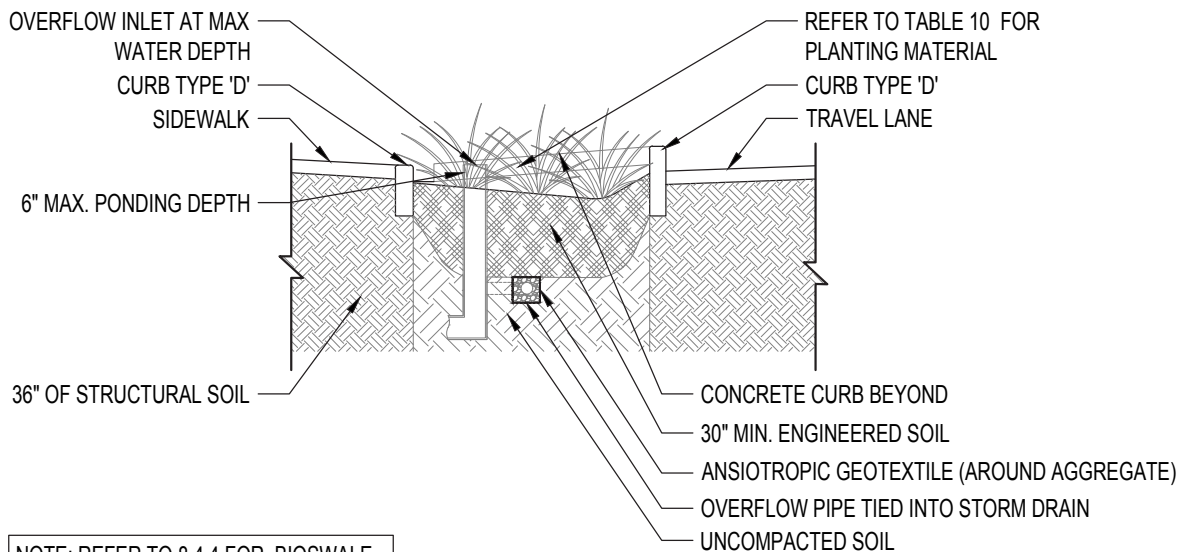
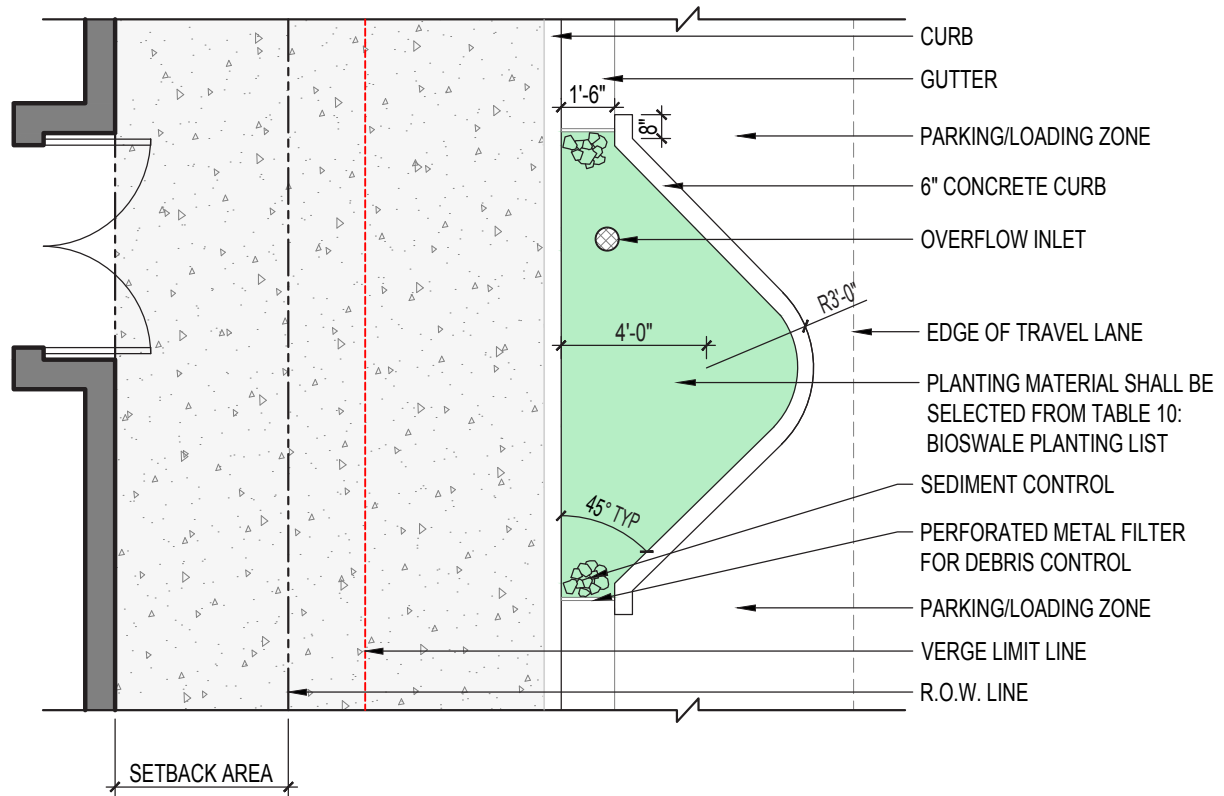
OCTOBER 2020

Table 10: Bioswale Planting List

TREES			
SCIENTIFIC NAME	COMMON NAME	OVERHEAD POWER LINES	TREE OPENING WIDTH INCHES
<i>Acer rubrum</i>	Red Maple	not allowed	48"
<i>Acoelorrhaphe wrightii</i>	Paurotis Palm	not allowed	60"
<i>Annona glabra</i>	Pond Apple	allowed	48"
<i>Clusia rosea</i>	Autograph Tree	not allowed	48"
<i>Conocarpus erectus</i>	Green Buttonwood	not allowed	48"
<i>Conocarpus erectus var. sericeus</i>	Silver Buttonwood	allowed	36"
<i>Pachira aquatica</i>	Guiana Chestnut	not allowed	84"
<i>Sabal palmetto</i>	Sabal Palm	not allowed	24"
<i>Taxodium ascendens</i>	Pond Cypress	not allowed	60"
<i>Taxodium distichum</i>	Bald Cypress	not allowed	60"

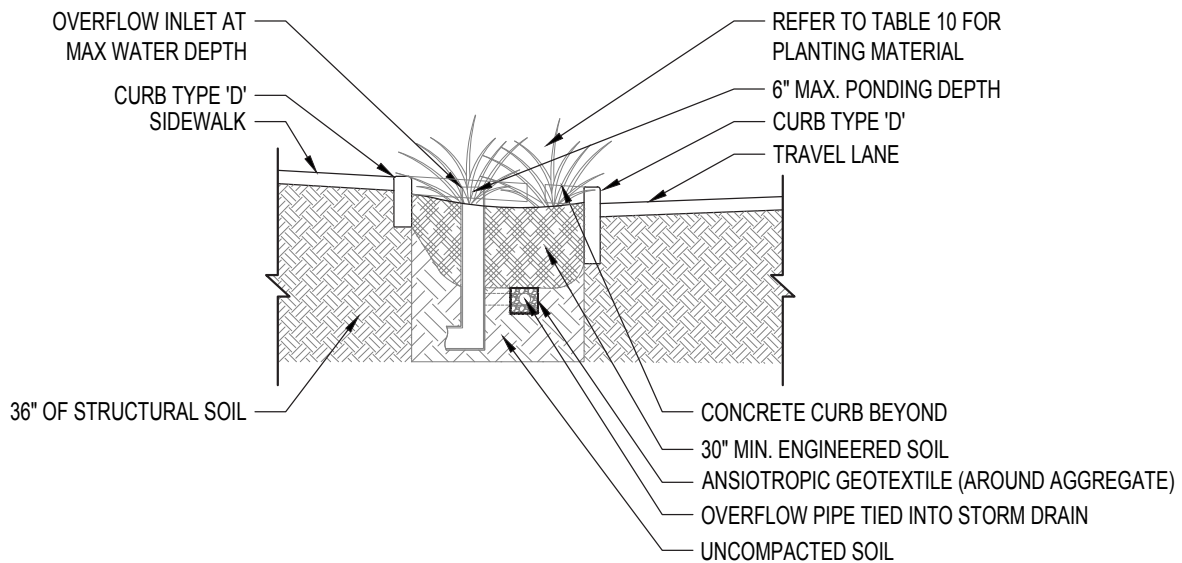
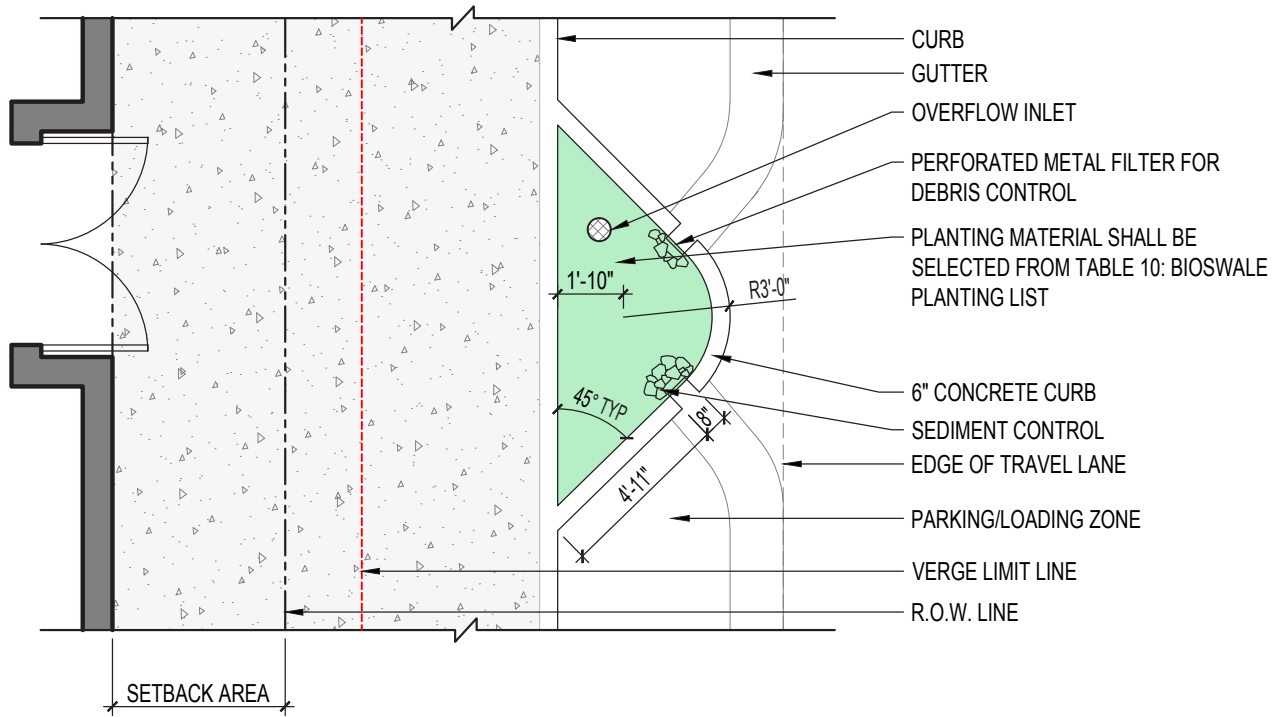
SHRUBS AND GROUNDCOVERS		
SCIENTIFIC NAME	COMMON NAME	NATIVE
<i>Asclepias</i>	Milkweed	Y
<i>Chrysobalanus icaco</i>	Cocoplum	Y
<i>Crinum asiaticum</i>	Crinum	N
<i>Hymenocallis latifolia</i>	Spider Lily	Y
<i>Muhlenbergia capillaris</i>	Pink Muhlygrass	Y
<i>Nephrolepis biserrta</i>	Macho Fern	Y
<i>Serenoa repens</i>	Saw Palmetto	Y
<i>Spartina bakeri</i>	Cordgrass	Y
<i>Tripsacum dactyloides</i>	Fakahatchee Grass	Y

Diagram 1: WYNWOOD PARKING LANE PLANTER 1 - BIOSWALE WITH CURB AND GUTTER



NOTE: REFER TO 8.4.4 FOR BIOSWALE PLANTER REQUIREMENTS

Diagram 2: WYNWOOD PARKING LANE PLANTER 2 - BIOSWALE WITH VALLEY GUTTER



NOTE: REFER TO 8.4.4 FOR BIOSWALE PLANTER REQUIREMENTS

8.4.5 Mulch

- a. Mulch shall be applied in Planters.
- b. All mulch shall be shredded Melaleuca (Florimulch or equivalent). Melaleuca mulch shall be applied in accordance with the most recent edition of the Florida Yards and Neighborhoods Handbook titled "A Guide to Florida Friendly Landscaping" by the University of Florida, Institute of Food and Agricultural Sciences (UF/IFAS).
- c. If Melaleuca mulch is unavailable and lack of availability is verified by the City, shredded hardwood mulch shall be used as its substitute. Shredded hardwood mulch must not be cypress and shall contain no dyes/pigments.

8.4.6 Irrigation

- a. Newly planted and relocated trees shall be watered by a permanent automatic-type irrigation system consisting of drip, trickle and/or bubblers that minimize water use and prevent water spray onto hardscape surfaces.

OCTOBER 2020

8.5 HARDSCAPE DESIGN

The pedestrian realm on Wynwood's Thoroughfares and Corridors was designed with a continuous verge of pervious paving over structural soil to allow for Tree root growth and create root network infrastructure.

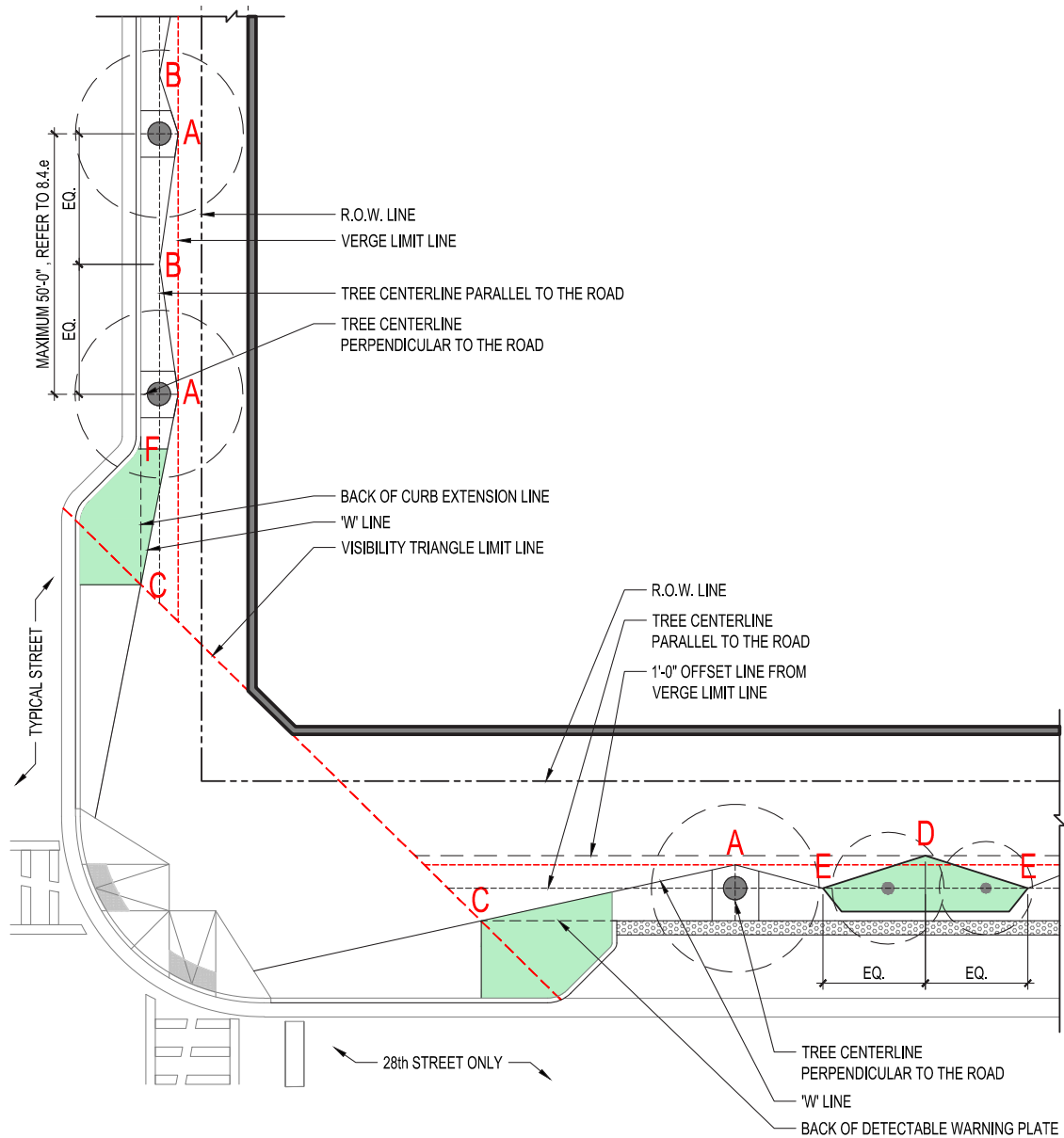
Typical hardscape guidelines apply to all street types except **4A**, **4B**, **4C**, **8**, **13** and **14**. Additional hardscape requirements are described in Section 8.7 Guidelines Specific to Street Type.

8.5.1 HARDSCAPE LAYOUT AND SUBSTRUCTURE

Refer to Diagram 3: Hardscape Design Point Guide for overall layout concept.

- a. Refer to **Diagram 4**: Typical Hardscape Design for layout and design of a typical Wynwood sidewalk.
- b. Refer to **Diagram 5**: Typical Hardscape 1 and **Diagram 6**: Typical Hardscape 2 for information on substrate composition beneath a typical Wynwood sidewalk.

Diagram 3: HARDSCAPE DESIGN POINT GUIDE



POINT 'A': INTERSECTION OF VERGE LIMIT LINE AND TREE CENTERLINE PERPENDICULAR TO THE ROAD

POINT 'B': INTERSECTION OF TREE CENTERLINE PARALLEL TO THE ROAD AND THE MIDPOINT BETWEEN STREET TREES. THIS POINT VARIES BASED ON TREE LOCATION

POINT 'C': INTERSECTION OF VISIBILITY TRIANGLE LIMIT LINE AND BACK OF CURB EXTENSION LINE / DETECTABLE WARNING PLATE

POINT 'D': INTERSECTION OF PLANTER LENGTH MIDPOINT AND 1'-0" OFFSET LINE FROM VERGE LIMIT LINE TOWARDS BASE BUILDING LINE

POINT 'E': PLANTER END POINT

POINT 'F': CENTER POINT OF BACK OF CURB RADIUS DEFINES PLANTER EDGE

POINT 'G': INTERSECTION OF VISIBILITY TRIANGLE LIMIT LINE AND VERGE LIMIT LINE, REFER TO DIAGRAM 23

POINT 'H': INTERSECTION OF VISIBILITY TRIANGLE LIMIT LINE AND R.O.W. LINE, REFER TO DIAGRAM 30

W-LINE: LINE THAT CONNECTS ALL POINTS TO CREATE EDGE BETWEEN THE CONCRETE AND THE PERVIOUS HARDSCAPE

NOTE:
REFER ADDITIONAL REQUIREMENTS ON DIAGRAM 4: TYPICAL HARDSCAPE DESIGN, DIAGRAM 25: STREET TYPE 8 HARDSCAPE DESIGN AND DIAGRAMS 7 AND 8 FOR CORNER CONDITIONS.

Diagram 4: TYPICAL HARDSCAPE DESIGN

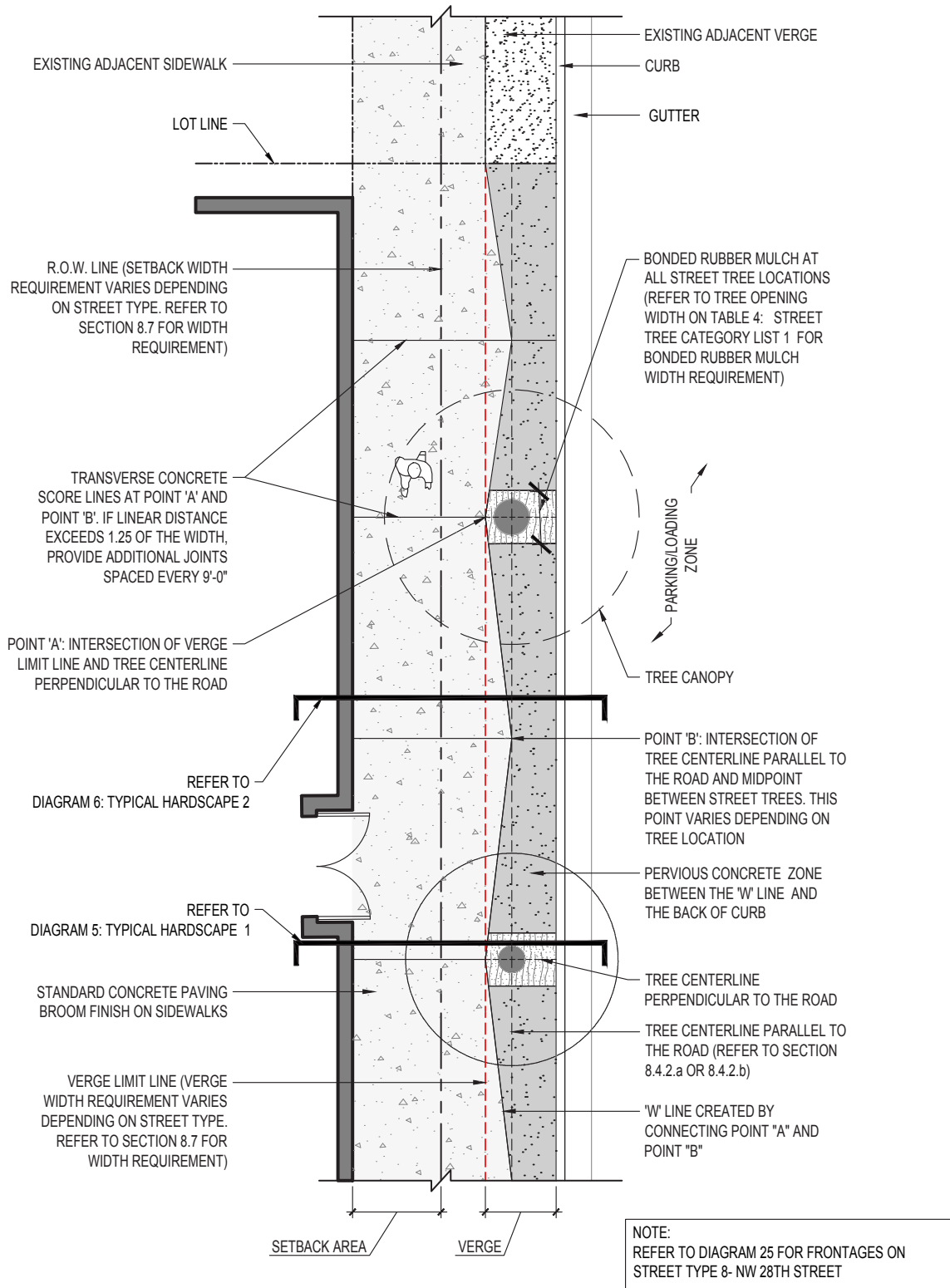


Diagram 5: TYPICAL HARDSCAPE 1

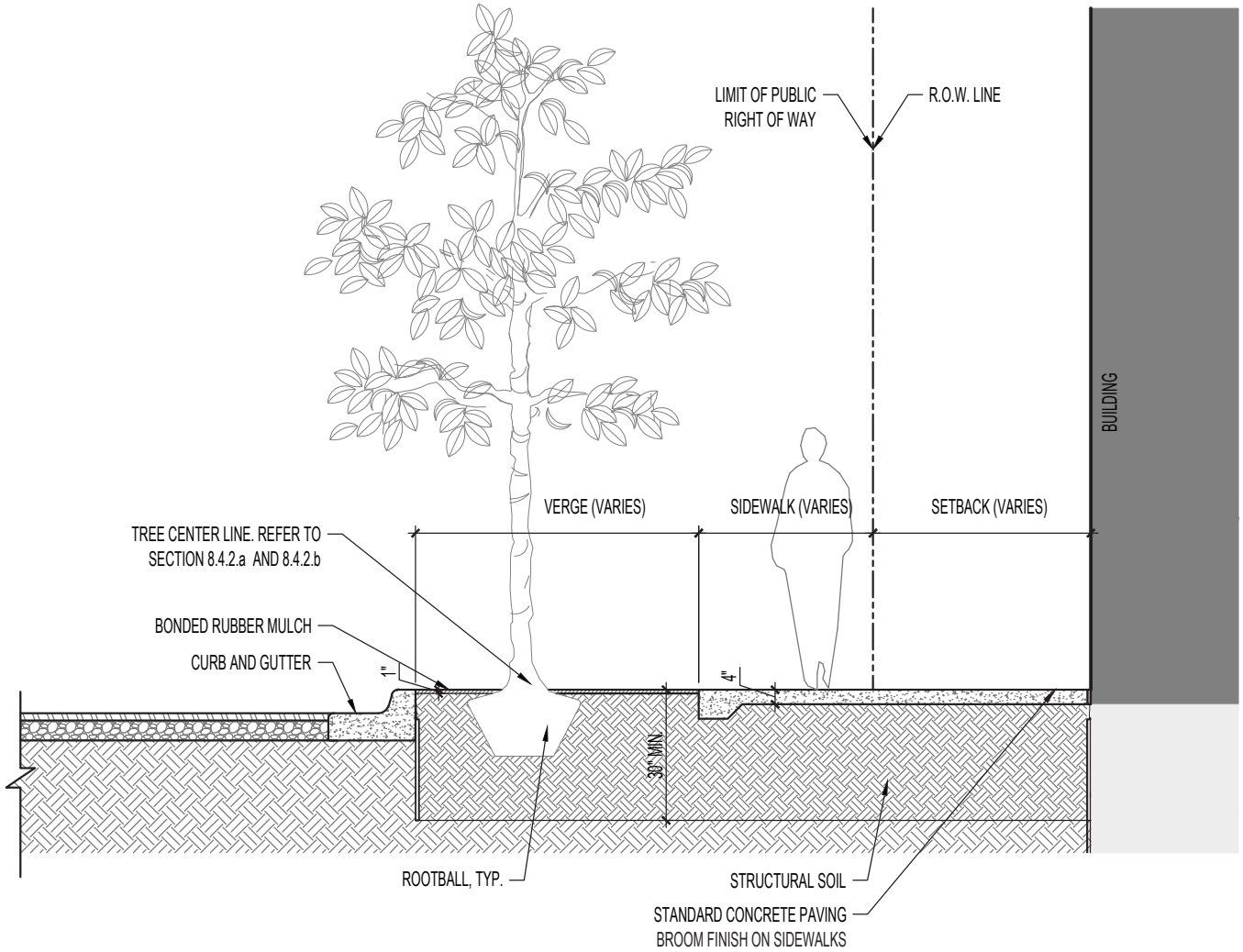
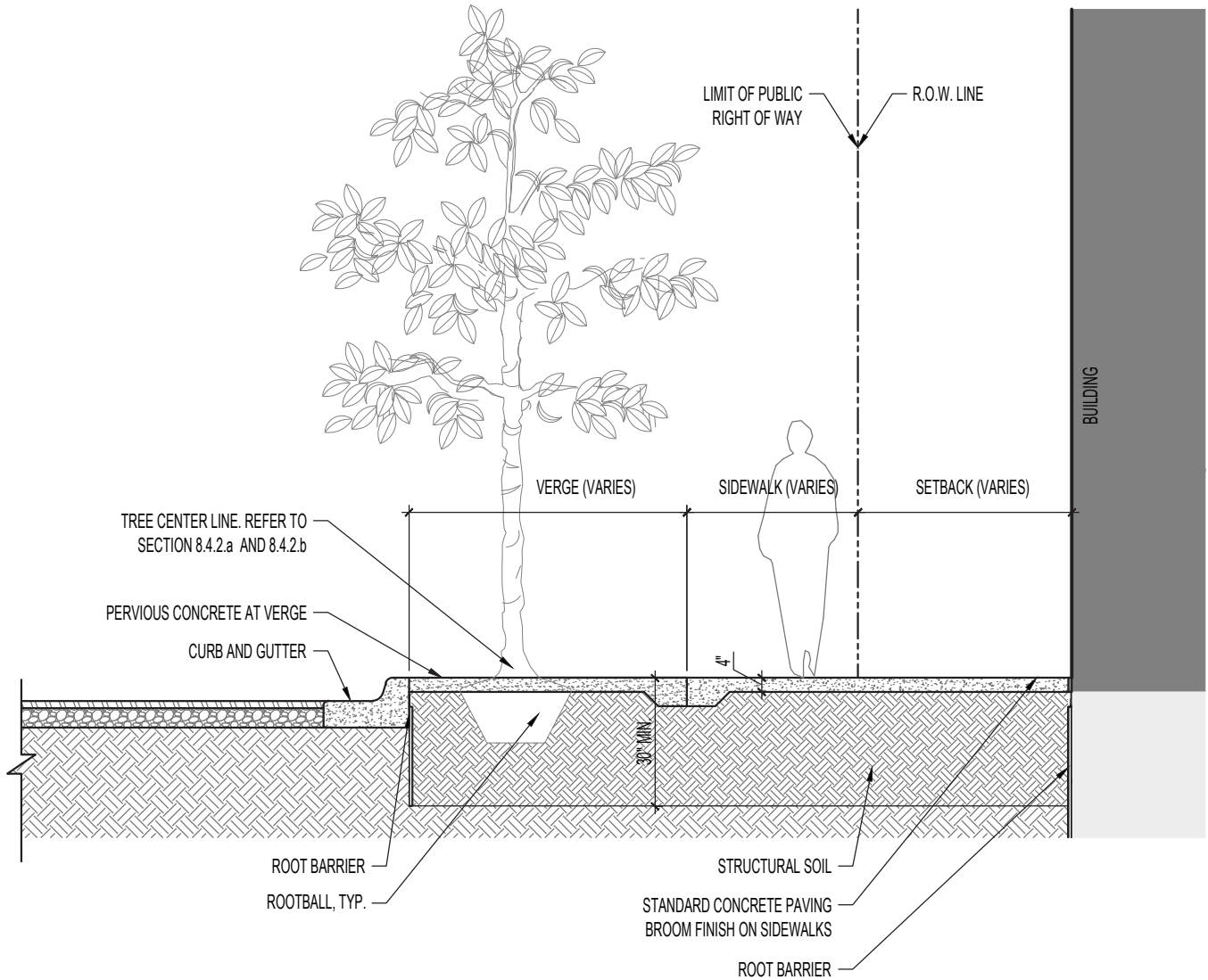


Diagram 6: TYPICAL HARDSCAPE 2



8.5.2 CORNER CONDITIONS

- a. Refer to Illustration 8.1: Curb Radii Illustration for required radii throughout the NRD-1.
- b. For Typical Corner conditions throughout the district follow **Diagram 7: Typical corner condition diagram with Planter Diagram**.
 - 1. Corner Planters on Street types **1A, 1B, 2, 3, 9, 11** and **12** ending in North Miami Avenue shall contain Ponytail Palms.
- c. Follow **Diagram 8: Corner with Planter condition diagram for layout and design of corner intersections of Street types 1A, 2, and 11** between NW 23rd Street and NW 20th Street, NW 1st Place and NW Miami Court.
- d. Creative corner condition within the limits shown on **Diagram 9: Creative corner diagram**, a hardscape Art installation (scoring, stamping, metal or material embeds) may be applied on the standard sidewalk concrete finish. Hardscape Art surface shall comply with ADA and withstand the exposure to the elements such as saltwater, sun and temperatures of South Florida. Design, materials and installation are subject to approval by the Planning Department and the Wynwood Design Review Committee (WDRC).

Illustration 8.1: CORNER CURB RADII ILLUSTRATION

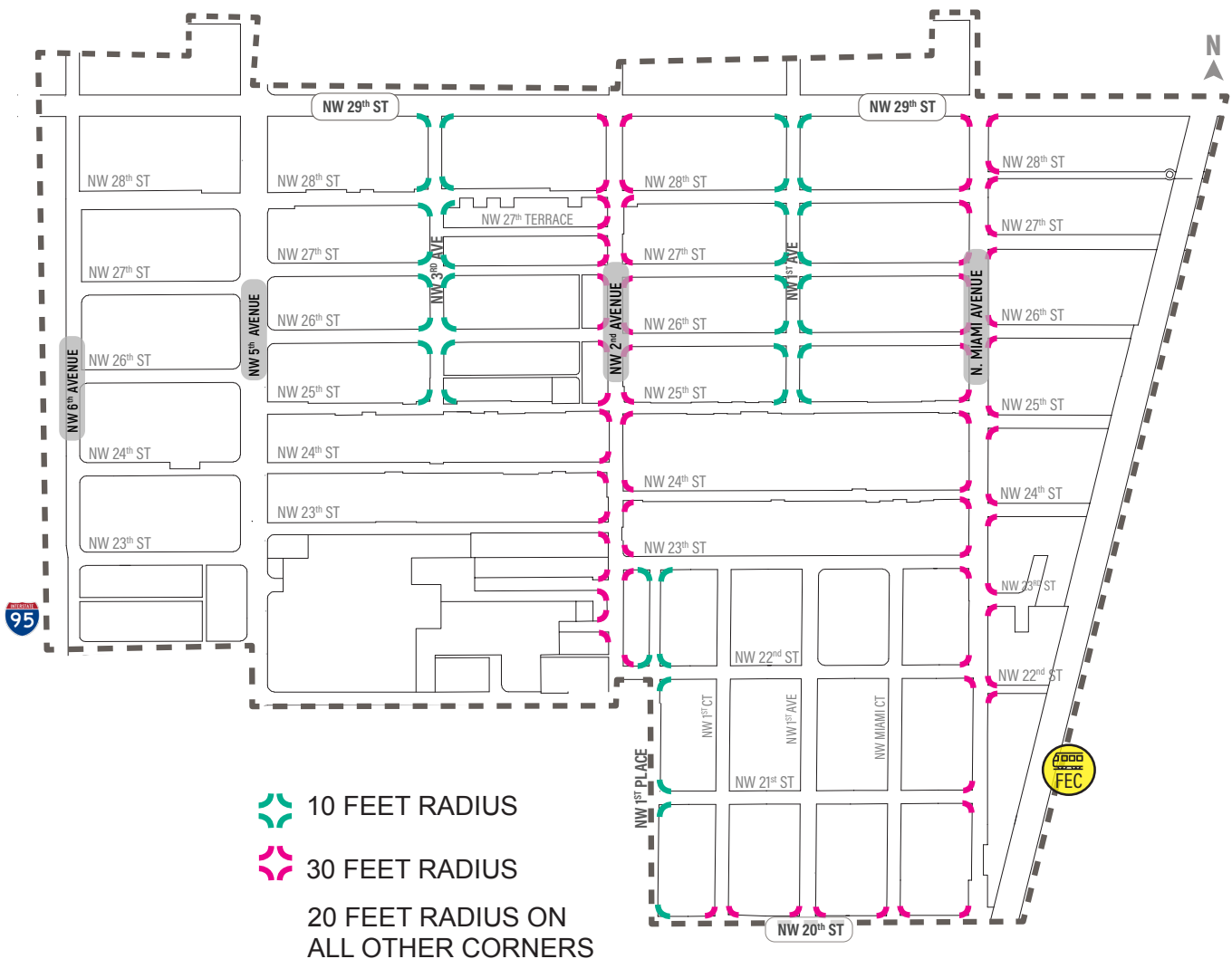


Diagram 7: TYPICAL CORNER CONDITION

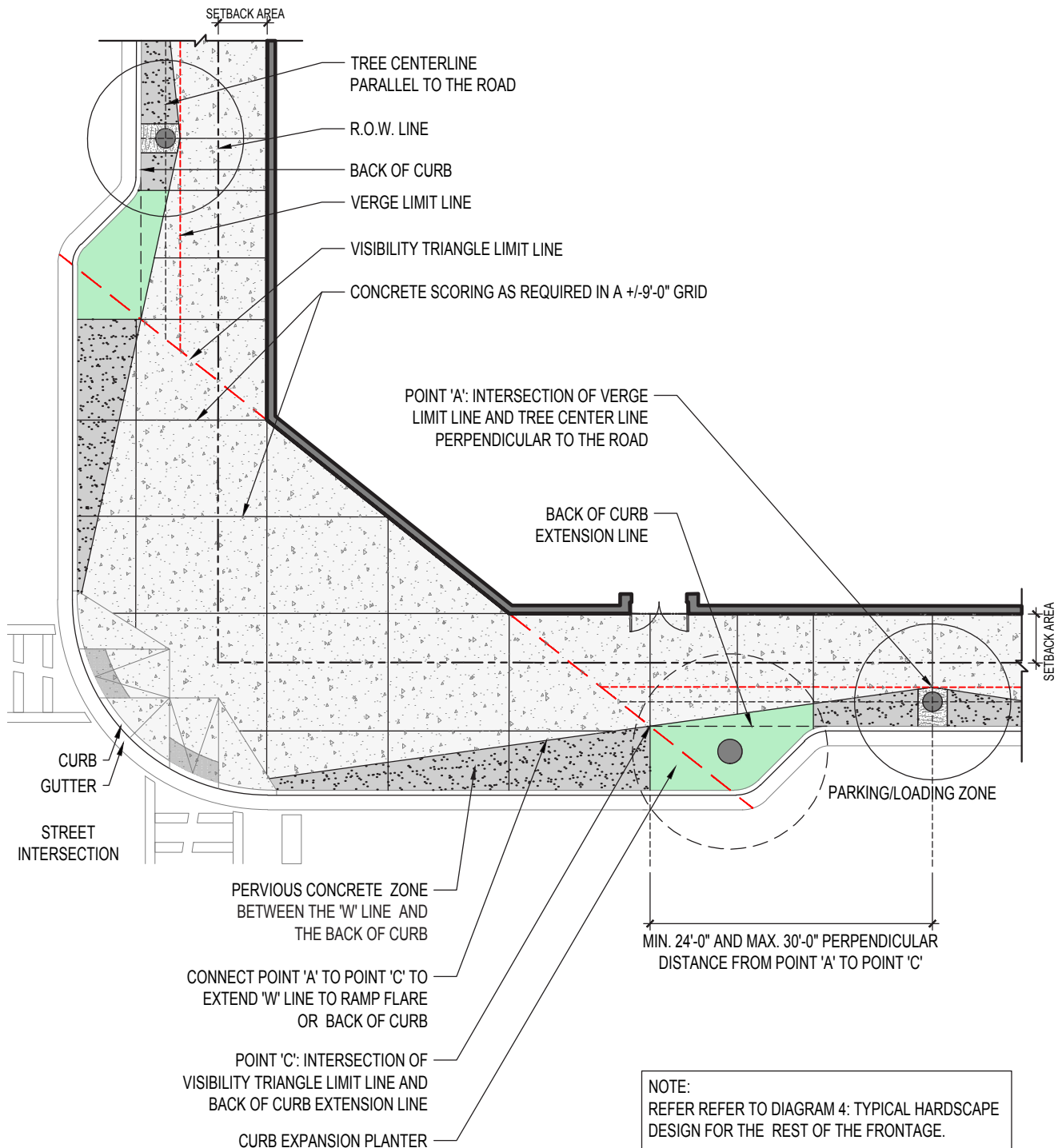


Diagram 8: TYPICAL CORNER WITH PLANTER

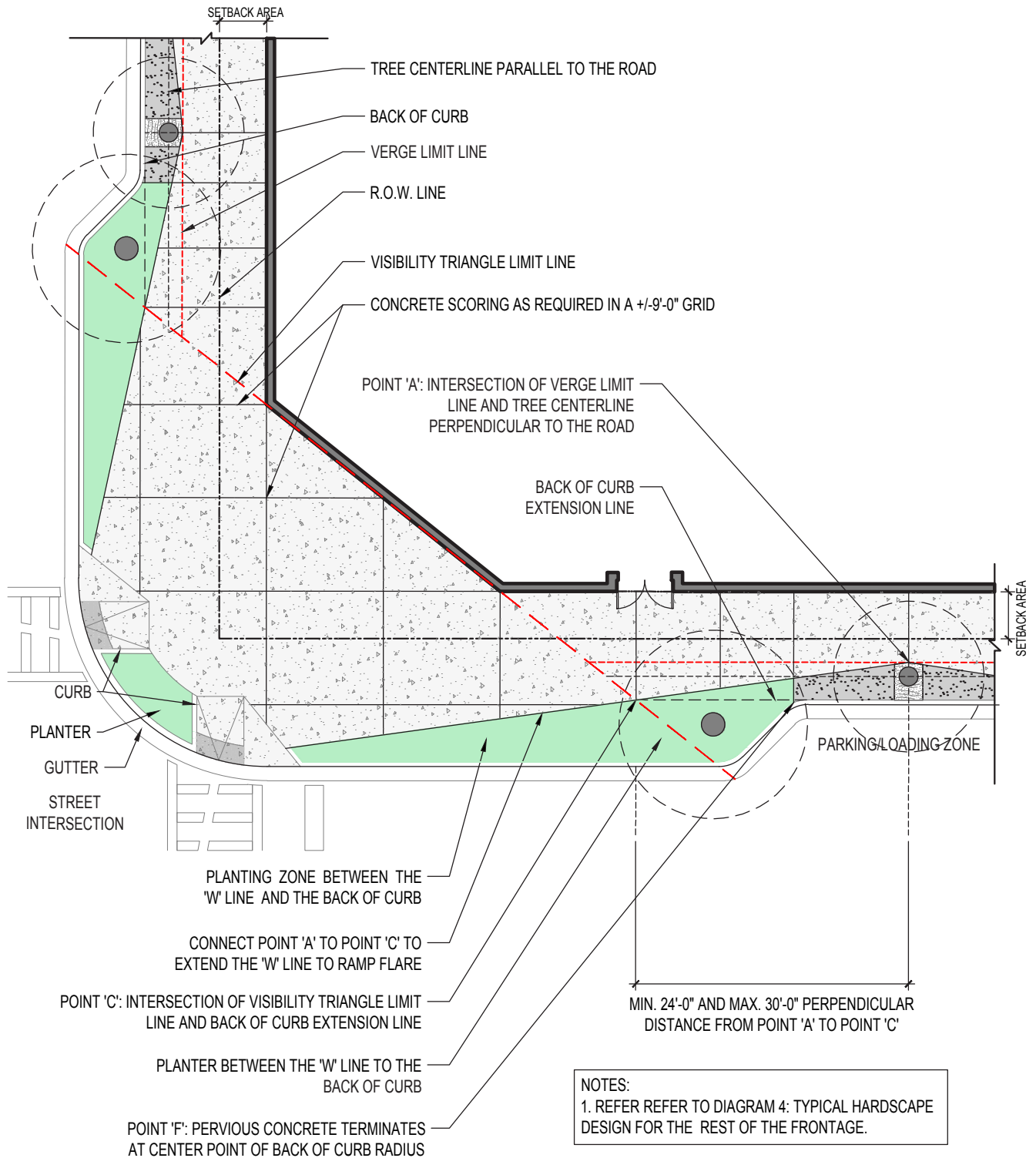
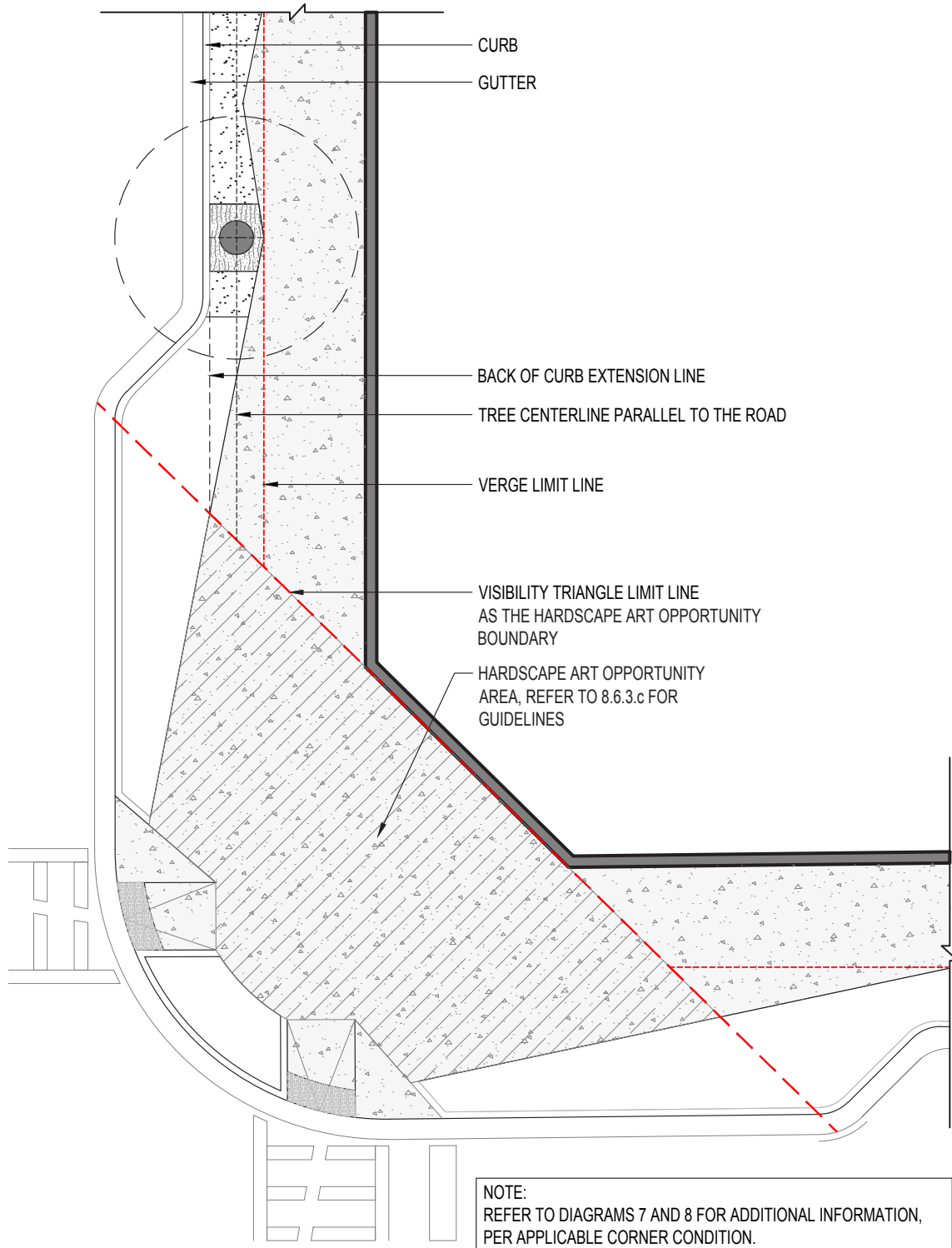


Diagram 9: CREATIVE CORNER



8.5.3 CURBS CUTS

Shall be provided as necessary, follow one of these three options.

Diagram 10: CURB CUT 1

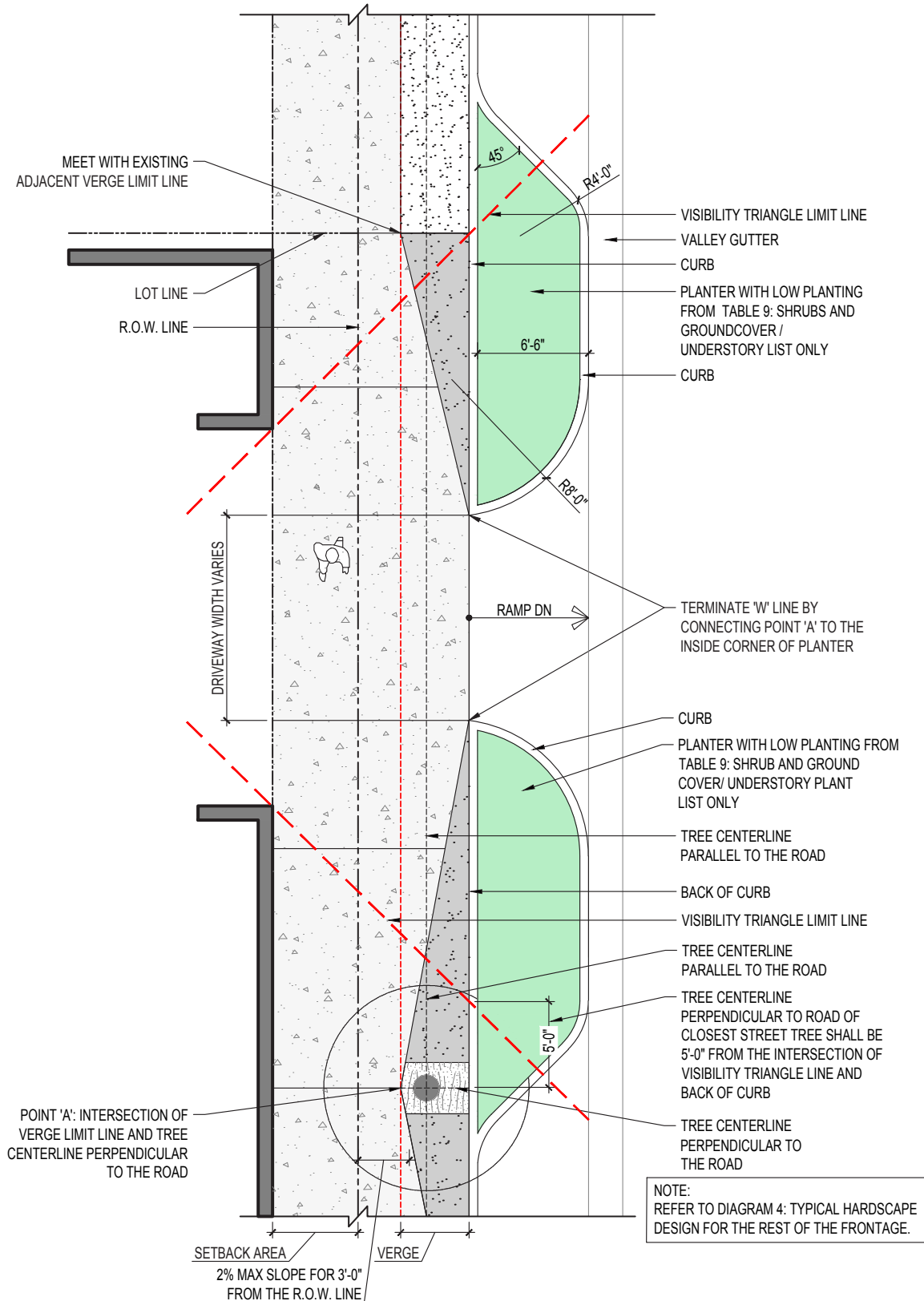
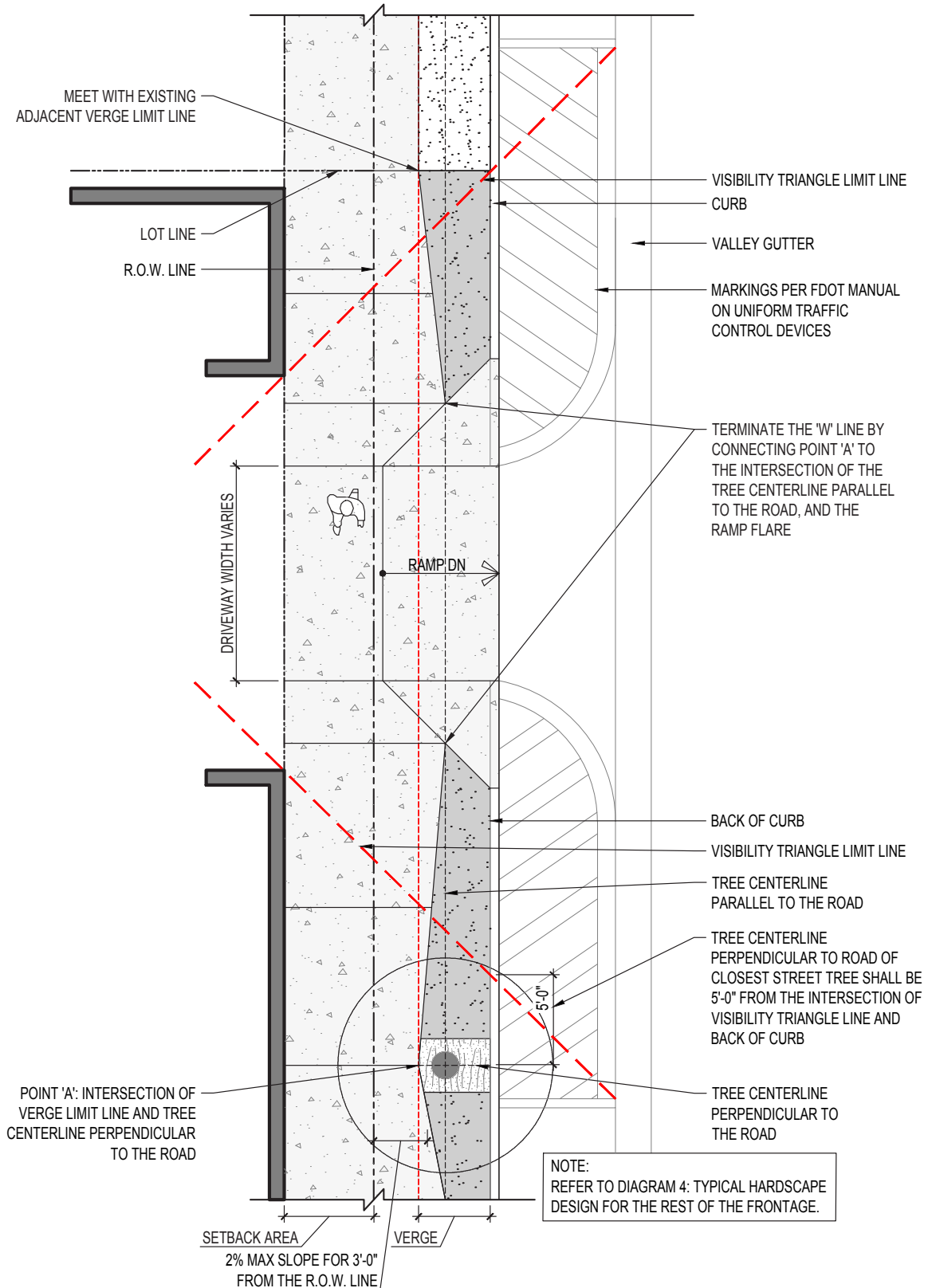
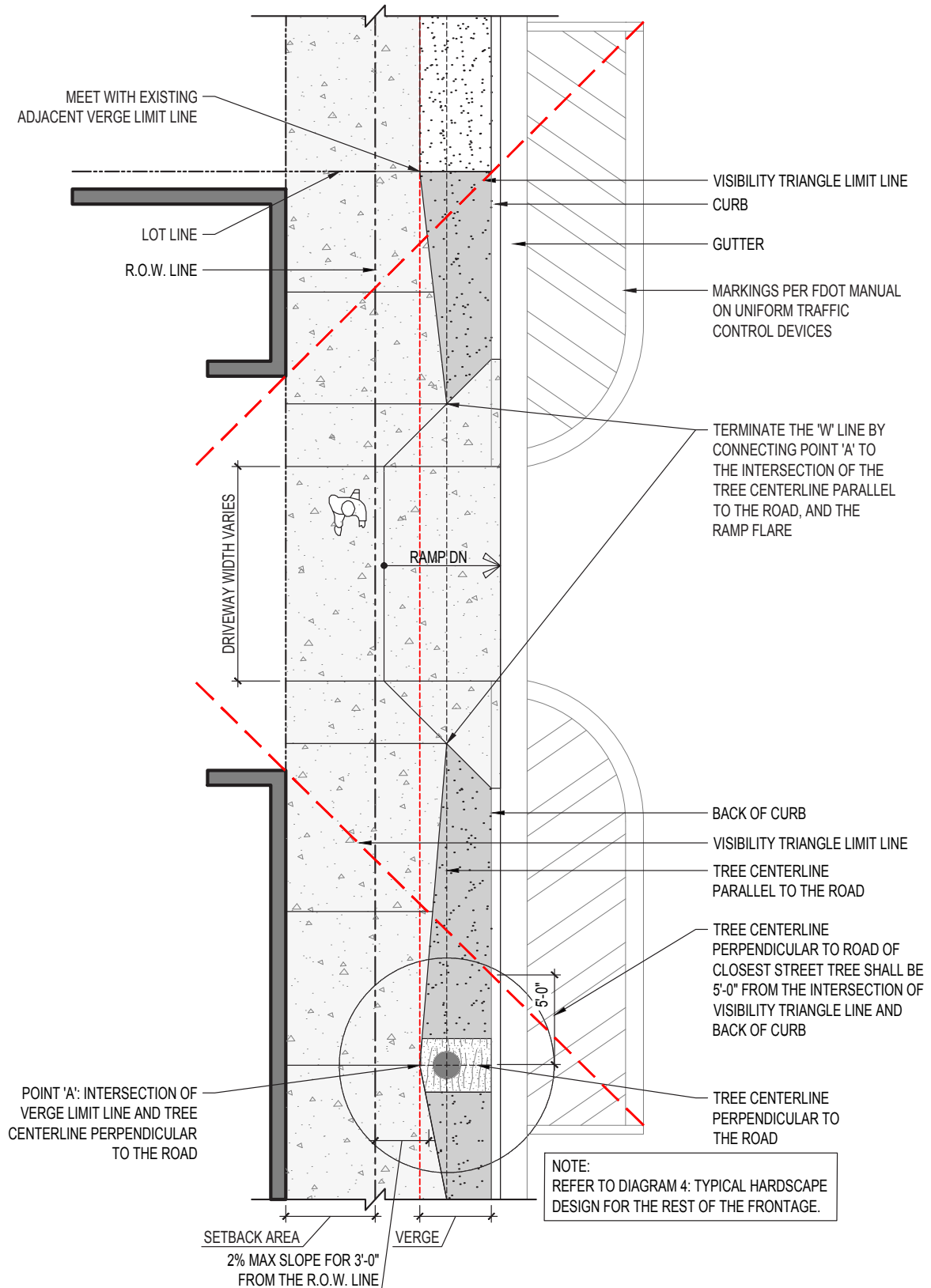


Diagram 11: CURB CUT 2



OCTOBER 2020

Diagram 12: CURB CUT 3



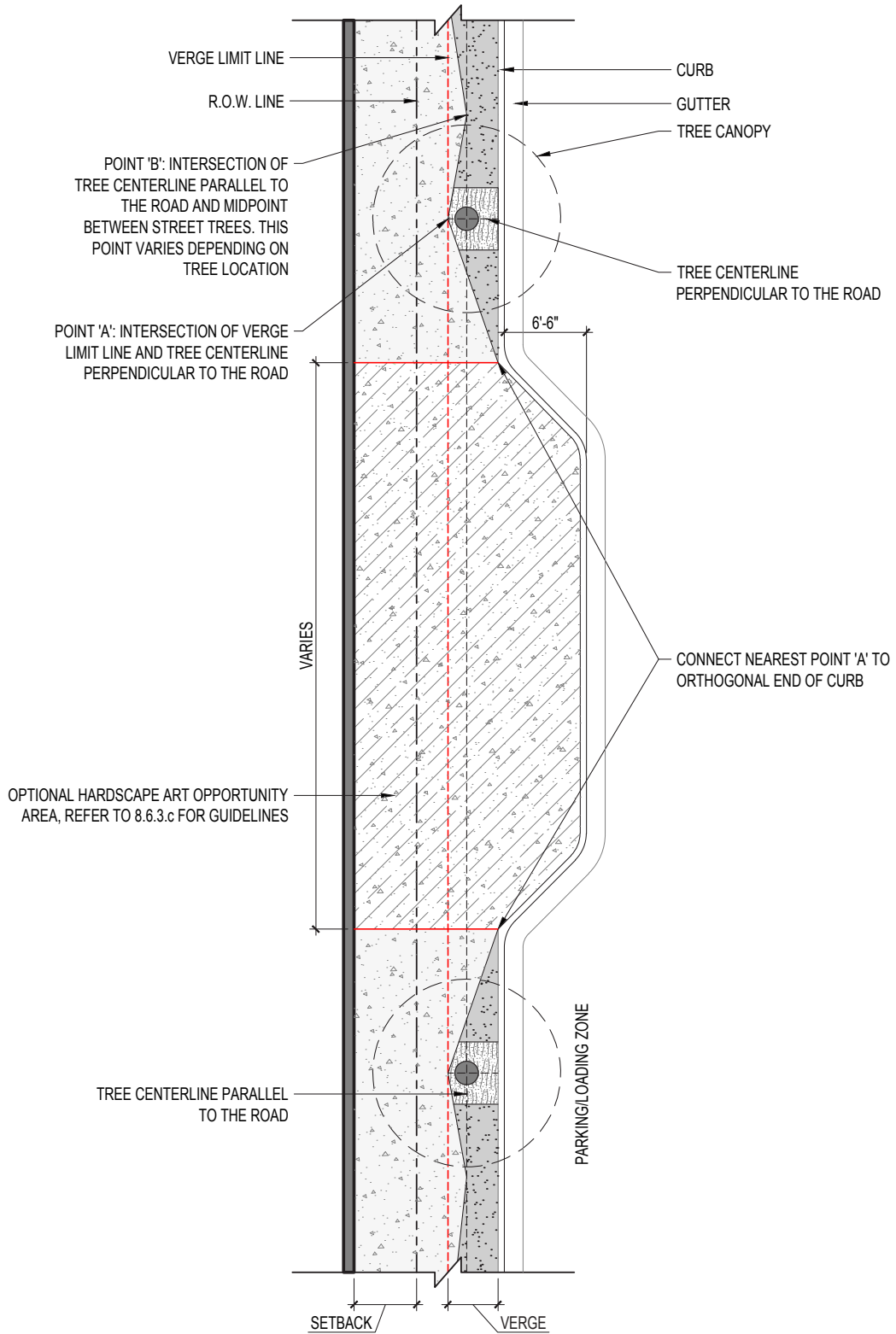
OCTOBER 2020

8.5.4 EXTENDED SIDEWALK

A developer may convert parking spaces from the City of Miami to extend the designated pedestrian zone within their frontage.

- a. Follow **Diagram 13: Extended Sidewalk** for layout.
- b. Extended Sidewalk must include one (1) or a combination of the options listed below, subject to approval by The City of Miami Planning Department and the Wynwood Design Review Committee (WDRC).
 1. One (1) Bioswale
 2. One (1) 3D Art or Sculpture
 3. One (1) tree or two (2) Palms every twenty (20) linear feet or fraction thereof.
 4. One (1) parklet or one (1) Wynwood standard bench accessible to the public.
 5. Optional: Within the limits shown on **Diagram 13**, a Hardscape Art installation (scoring, stamping, metal or material embeds) may be applied on the standard sidewalk concrete finish. Hardscape Art surface shall comply with ADA and efficiently withstand the exposure to the elements such as saltwater, sun and temperatures of South Florida.

Diagram 13: EXTENDED SIDEWALK



8.5.5 MATERIAL SPECIFICATIONS

Below is the list of materials, refer to Volume 3 for additional information.

- a. Substrate Soil from the edge of asphalt pavement to the building foundation.
 - 1. Structural Soil- CU-Specification. Refer to **Article 1, Section 1.4** of Miami 21.

- a. Standard Concrete Broom finish for Sidewalk
 - 1. Refer to City of Miami Public Works Engineering Standards.
 - 2. Provide saw cut joints to be provided per Volume 3.

- b. Pervious Pavement System- Pervious Concrete for verge.
 - 1. Refer to mix specifications from National Ready Mixed Concrete Association in Volume 3.
 - 2. Installer must have minimum five (5) years of experience with pervious concrete installations.
 - 3. A half (1/2) inch radius tooled edge shall be provided on all sides to help minimize any raveling and strengthen the edges adjacent to the other surfaces.
 - 4. Scofield Chromix "Cool Gray" Color.
 - 5. Gray Granite Addapave may be used as an alternate material.

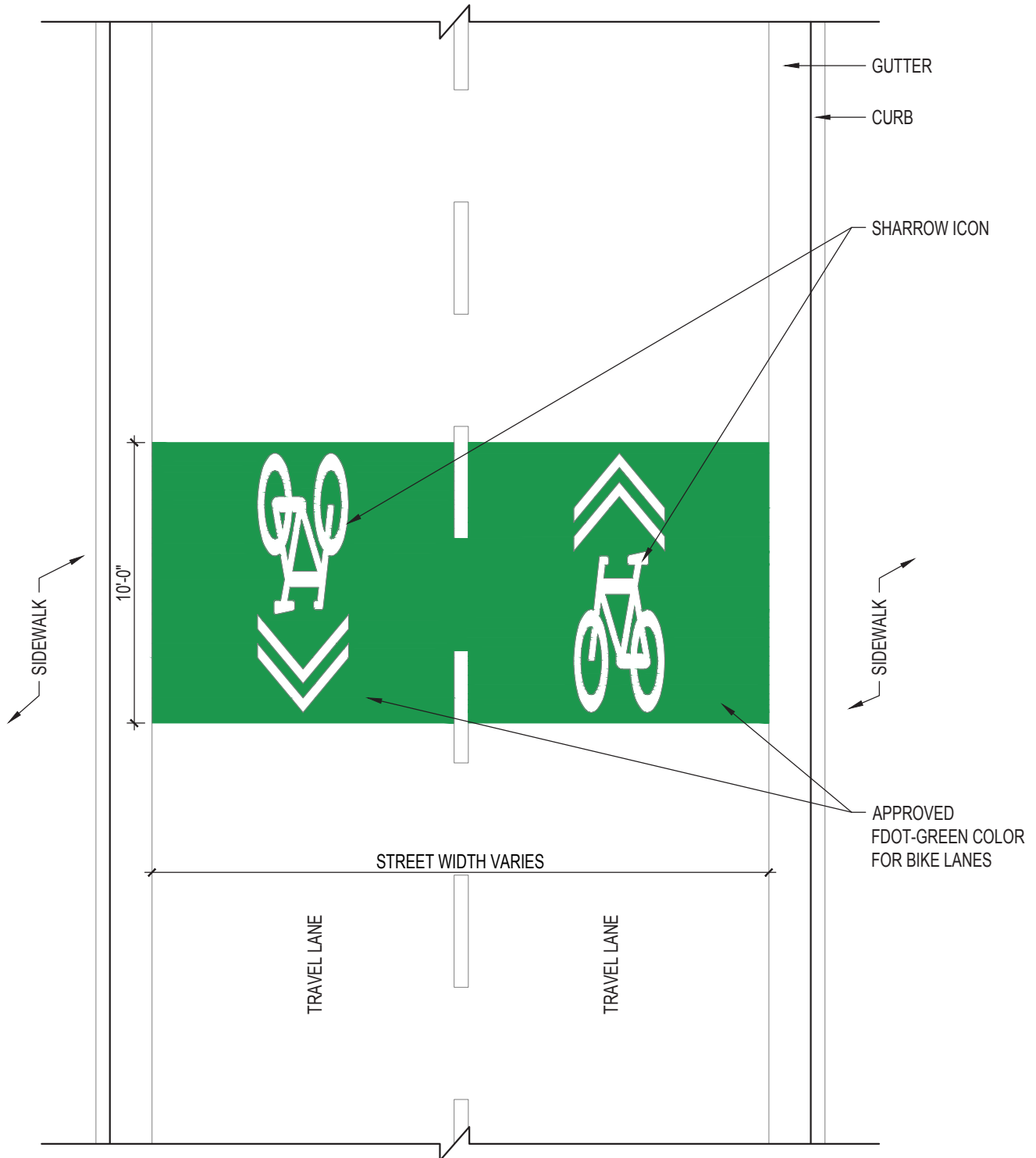
- c. Bonded Rubber Mulch for Tree Pit throughout. Refer **Article 1, Section 1.4** of Miami 21.
 - 1. Black
 - 2. Gold

- d. Detectable Warning Plate on Street Type 8 and all ADA ramps and Crosswalks.
 - 1. Duralast Cast Iron Detectable Warning

- e. Thermoplastic (per FDOT standards and specifications for all Road Markings throughout the district).
 - 1. Thermoplastic-DecoMark by Ennis Flint , hot applied , 125 mils thick.
 - 2. Colors: FDOT Bike Lane Green
 White for Decorative Crosswalk 1
 Burnt Orange for Decorative Crosswalk 2
 Brick Red for Decorative Crosswalk 2

- f. Cycle Track on Street Type 10.
 - 1. Zebra 13- Recycled plastic

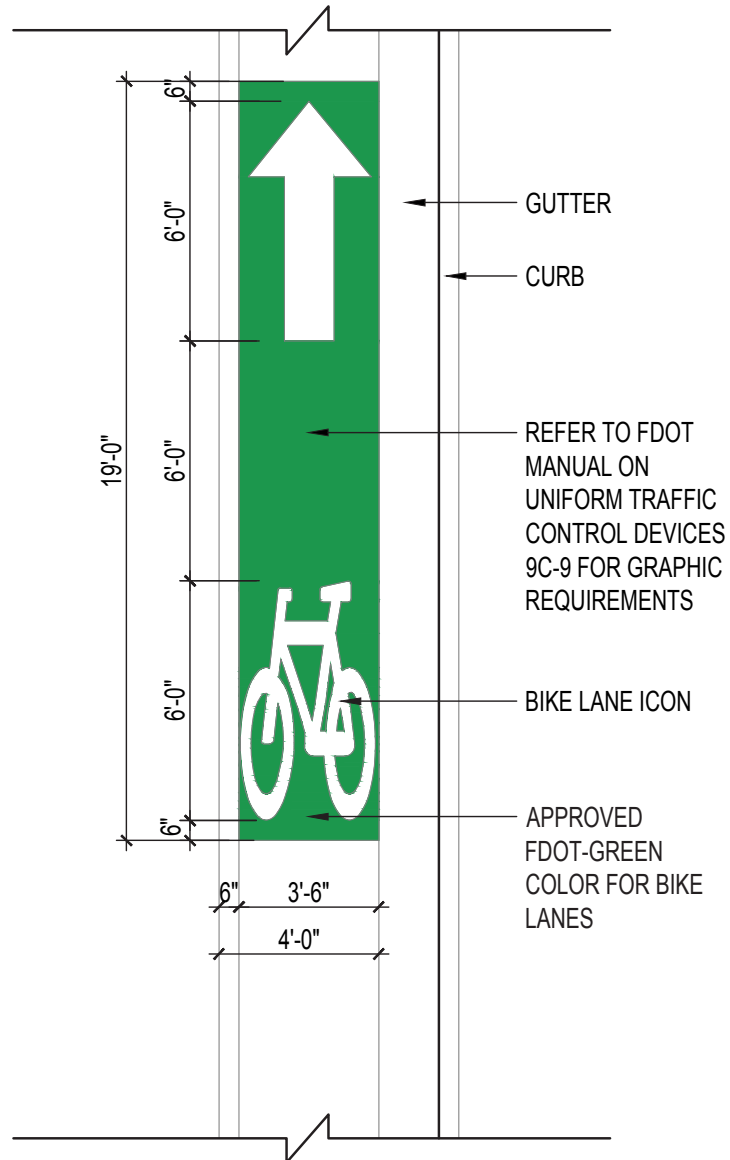
Diagram 14: SHARROW MARKING



NOTE:
REFER TO FDOT MANUAL ON UNIFORM
TRAFFIC CONTROL DEVICES 9C-9 FOR
GRAPHIC REQUIREMENTS

OCTOBER 2020

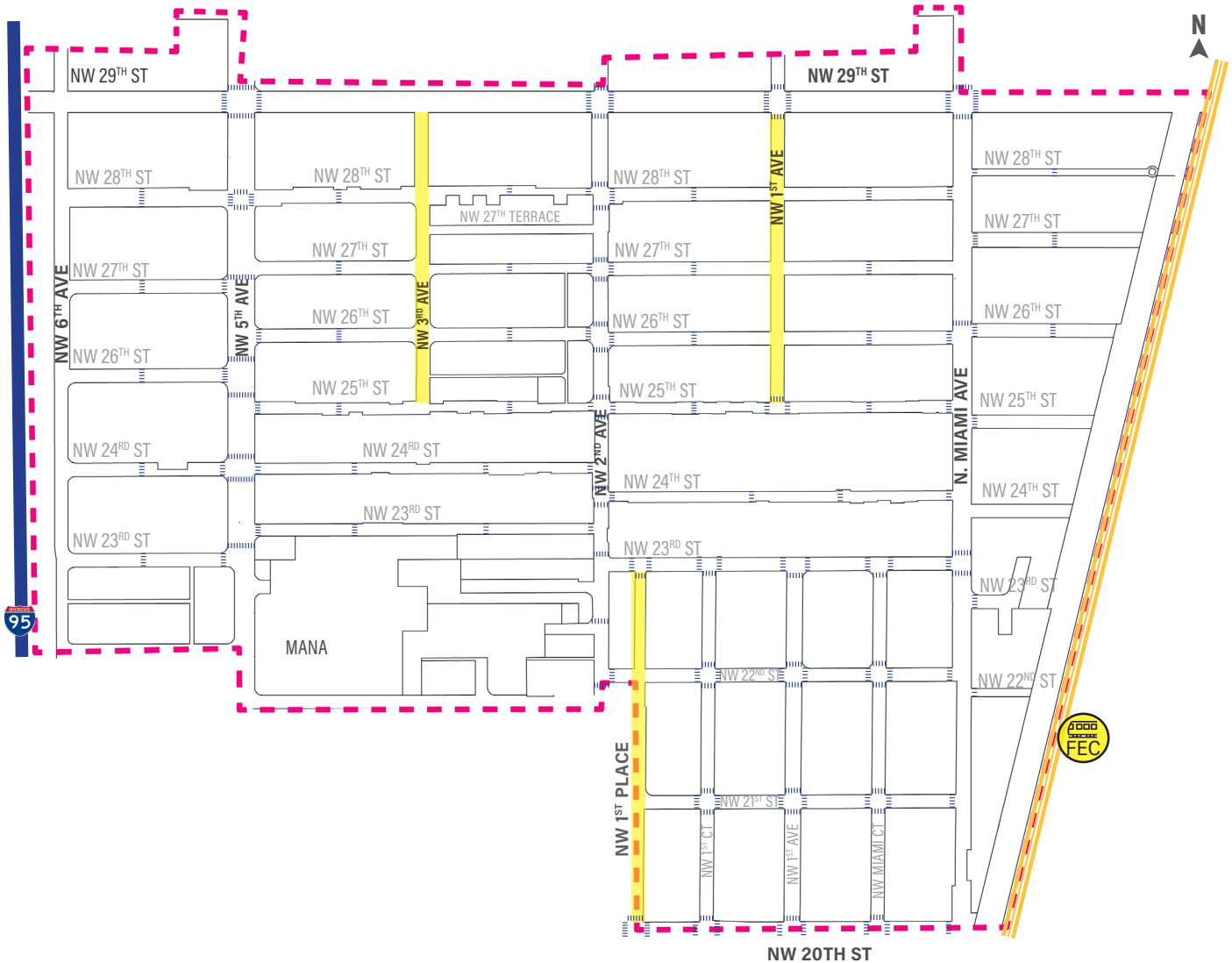
Diagram 15: BIKE LANE MARKING



8.5.6 CROSSWALKS

Refer to **Illustration 8.4: Crosswalk Location Illustration** for proposed crosswalks.

Illustration 8.2: CROSSWALK LOCATION MAP



- a. Follow **Diagram 16: Decorative Crosswalk 1** marking diagram at all traffic intersections in the District except Street Types 6,7 and 12
- b. Follow **Diagram 17: Decorative Crosswalk 2** marking diagram for at all traffic intersections on Street Types **6,7** and **12**.
- c. Traffic Analysis and FDOT Warrant to be coordinated with the City of Miami, Miami-Dade County and the Wynwood BID for all Crosswalks.
- d. Follow **Diagram 16: Midblock Crosswalks** diagram for proposed midblock crosswalks.
- e. Provide midblock crosswalks per standards below:
 1. Minimum of one (1) in a six hundred (600) feet long block.
 2. Minimum of two (2) in a one thousand two hundred (1,200) feet long block.
 3. Midblock crosswalks may be coordinated with proposed or existing paseos and shall meet all FDOT requirements.

Diagram 16: DECORATIVE CROSSWALK 1

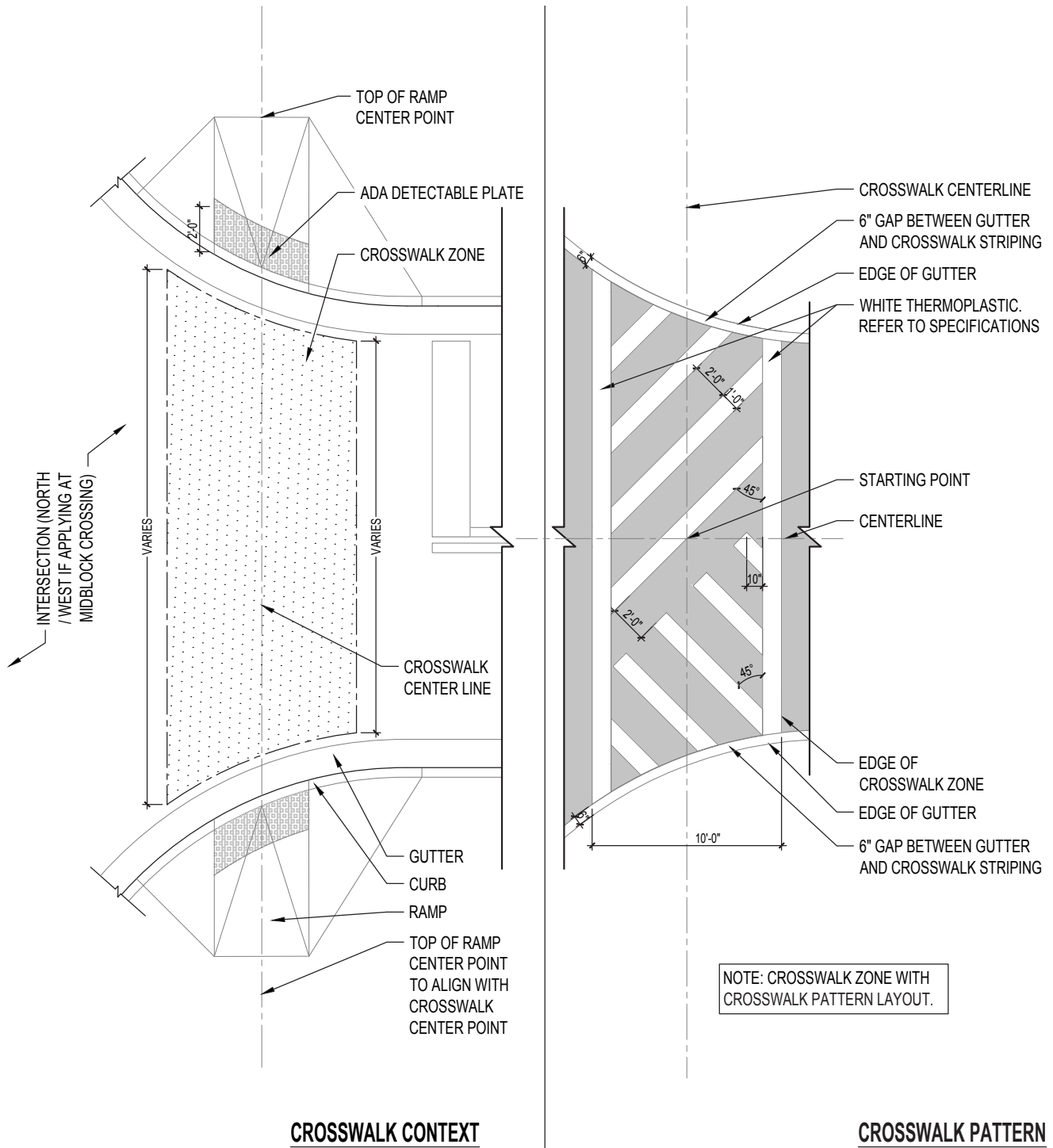
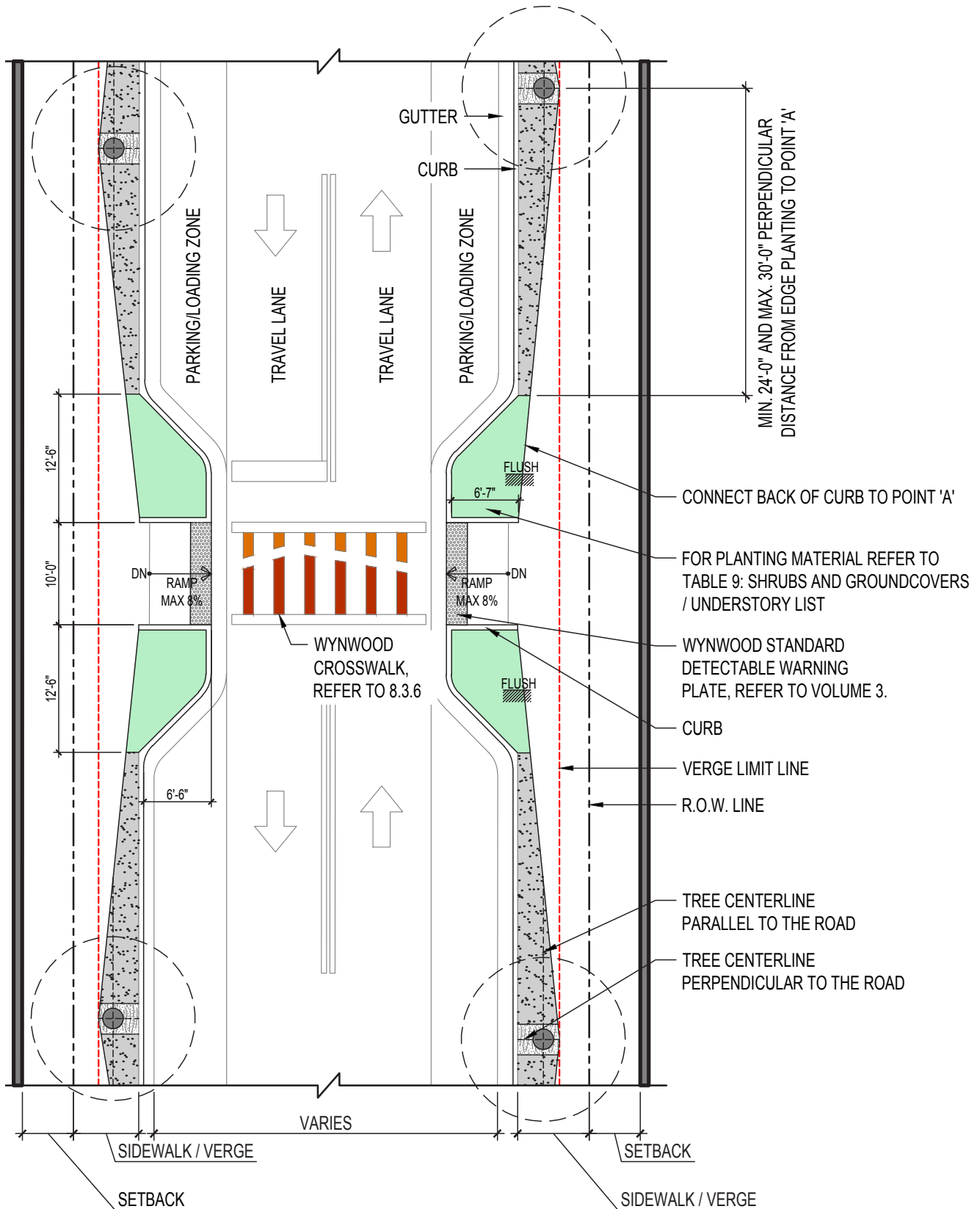


Diagram 18: MIDBLOCK CROSSWALK



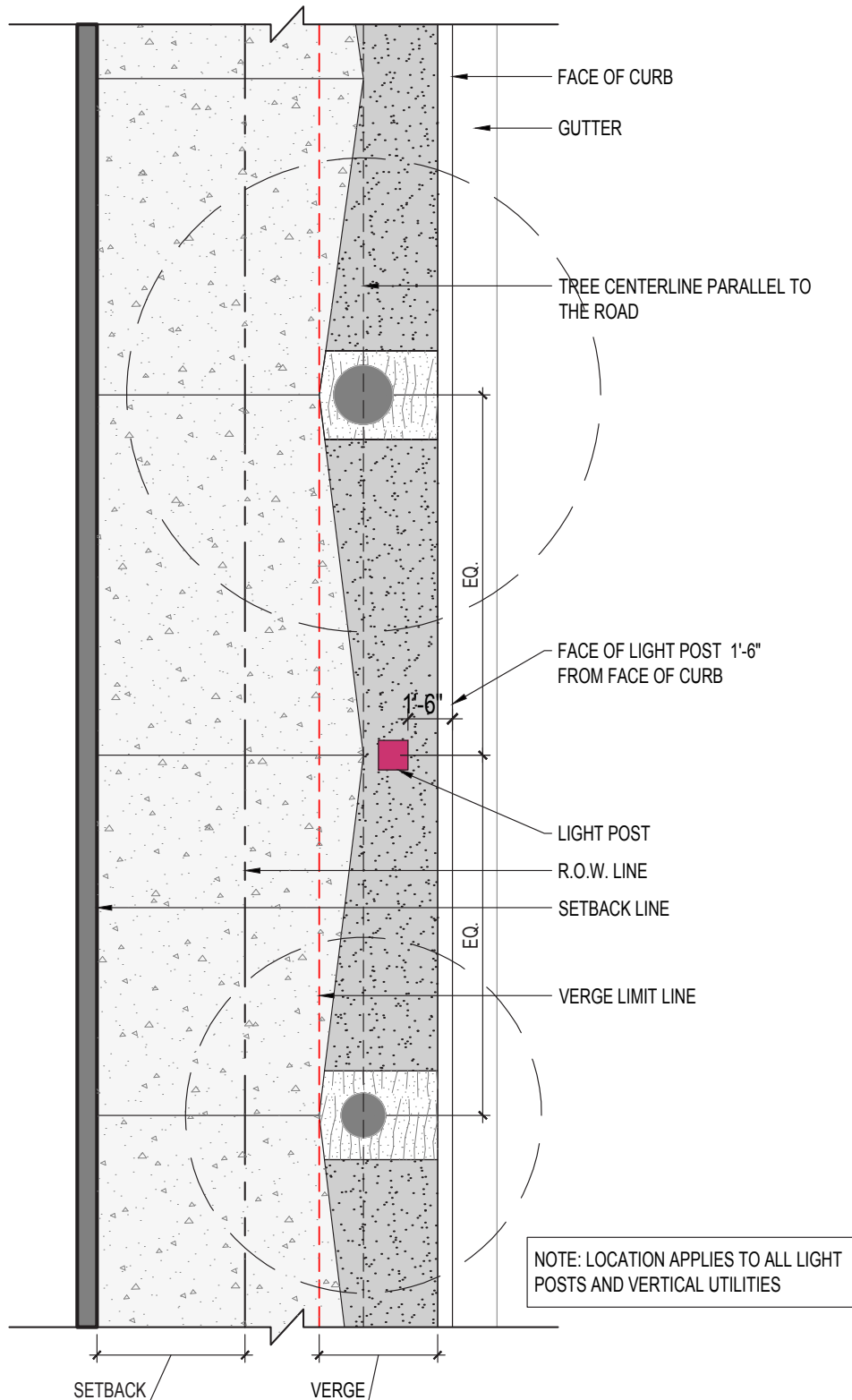
8.6 FURNISHING ELEMENTS

8.6.1 LIGHTING

Shall be provided throughout the R.O.W. to meet a minimum 1.0 Foot-candles at pedestrian/sidewalk areas, an average of 1.5 Foot-candles on the roadways and an average 2.0 Foot-candles at crosswalks. Unless specified below, lighting requirements per Street Type are described on **Section 8.7** Guidelines Specific to Street Types.

- a. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone throughout the district. Refer to Volume 3 for Data Sheet. Refer to **Section 8.7** Specific Street Type for spacing and to Standard Light post Location diagram **Diagram 19** for light post location on the verge.
- b. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone throughout the district. Refer to Volume 3 for Data Sheet. Refer to **Section 8.7** Guidelines Specific Street Type or spacing and **Diagram 19: Standard Light Post Location** diagram for location on the verge.
- c. Wynwood Standard Type 3 (Arne) Pedestrian Post and Fixture shall be installed within the verge zone on Street Types 7 and 8 only. Refer to Volume 3 for Data Sheet. Refer to **Section 8.7** Guidelines Specific Street Type for spacing and **Diagram 19: Standard Light Post Location** diagram for location on the verge.
- d. Lighting for Street Types **1A, 1B, 2, 3, 11** and **12** shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately one hundred (100) linear feet on alternating street sides.
 2. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every sixty (60) linear feet on center on both sides of the street.
- e. Light posts may be installed within the limits of the Visibility Triangle area as necessary.

Diagram 19: STANDARD LIGHT POST LOCATION



OCTOBER 2020

8.6.2 SEATING, LITTER BINS, BIKE RACKS, PARKLETS AND WAYFINDING

Urban furnishing elements such as benches, chairs, litter receptacle and bike racks shall be installed throughout the district within the verge, unless otherwise noted.

- a. Seating may be installed in the Landscape Zone of Street Types **13** and **14**, within the median for Street Type 10 and at Play Streets. Locations shall be approved by the City of Miami and upon recommendation by the Wynwood BID.
- b. Seating may be located within the verge on Street Types **6, 7, 9, 10, and 12**. Preferable bench location is under trees, to provide shade and comfort. Follow Standard Bench Location **Diagram 21** for location within the verge.
- c. Seating options below:
 1. Wynwood Standard Bench: May be installed throughout the district. Refer to Volume 3 for Data Sheet.
 2. W-Bench: Shall be installed on Street Types **4A** and **8**. Refer to **Diagram 28: Street Type 8 Bench Location**. For information on Street Types **4A** and **4B** refer to Volume 2. Refer to **Volume 3** for Bench Data Sheet.
 3. Customized seating by artists may be located within the verge and at noted locations on **8.6.2.a**, subject to approval by the City of Miami and the WDRC. Shop drawings signed and sealed by a Florida Registered Professional Engineer shall be submitted to the City of Miami for review and approval. Refer to **8.6.3.b** for additional requirements.
- d. Wynwood Standard Litter Receptacle shall be located within the verge at corners and midblock crosswalks. Refer to **Volume 3** for Receptacle Data Sheet.
 1. The minimum distance between litter receptacles shall be three hundred and fifty (350) feet. For location within the verge, follow **Diagram 20** Standard Litter Receptacle Location.
 2. Two (2) litter receptacles shall be located on opposite corners of all NW 2nd Avenue intersections.
- e. Wynwood Standard Bike Rack shall be located within the verge. Refer to **Volume 3** for Bike Rack Data Sheet.
 1. Bike Racks should be placed within twenty-five (25) feet of main entrance in the verge. Follow **Diagram 22** Standard Bike Rack Location diagram for location within the verge, parallel with the flow of pedestrian traffic.
 2. Avoid placing Bike Racks directly in front of disabled parking spaces, building doors and locations that impede pedestrian flow.
 3. Avoid placing Bike Racks within thirty (30) feet of a bus stop, as measured from the bus stop sign counter to traffic flow.
- f. Parklets may be installed in the parking loading area. Refer to suggestions on **Volume 3**.
 1. Location shall be subject to approval by the City of Miami and the WDRC.
 2. All applicable permits shall be attained by developer.
 3. Shop drawings signed and sealed by a Florida Registered Professional Engineer shall be submitted to the City of Miami for review and approval.
- g. Wayfinding elements may be provided throughout the district per suggestions on Volume 2.
 1. Design, materials, structure/engineering, and location is subject to approval by the City of Miami and the Wynwood BID.

OCTOBER 2020

Diagram 20: STANDARD LITTER RECEPTACLE LOCATION

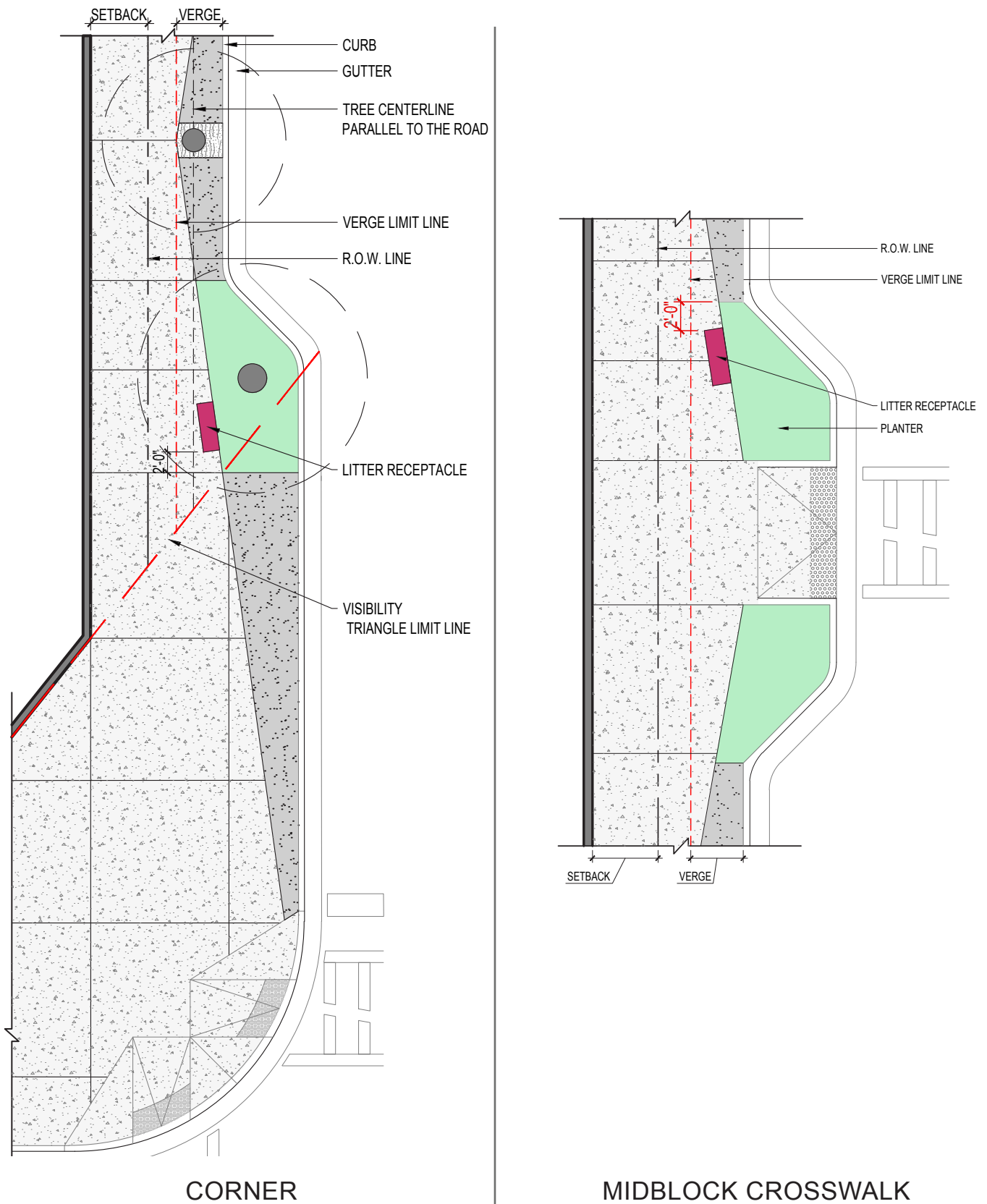


Diagram 21: STANDARD BENCH LOCATION

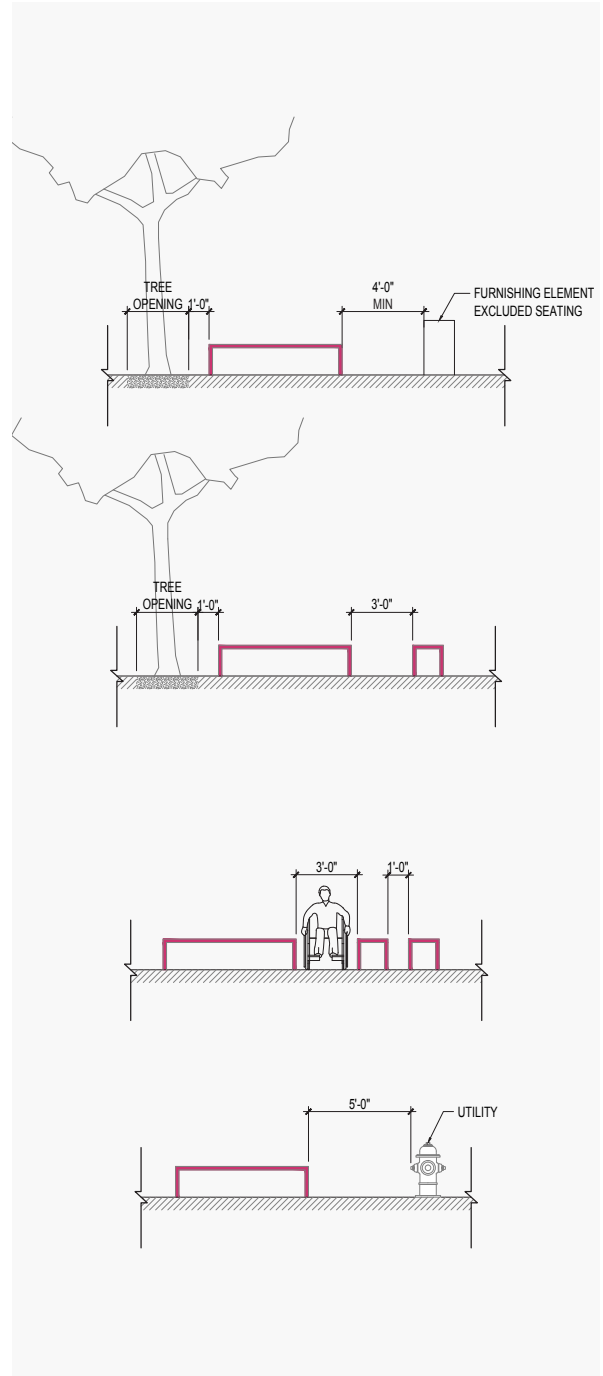
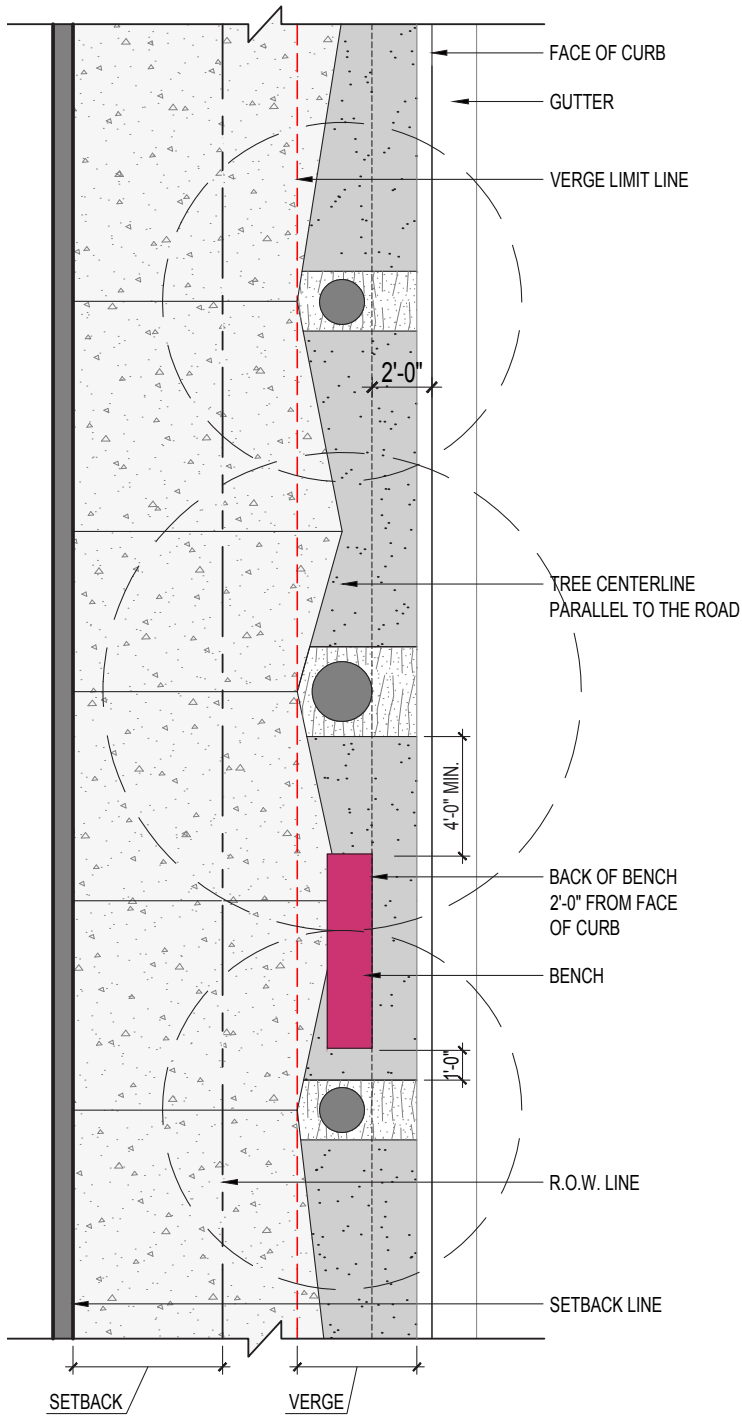
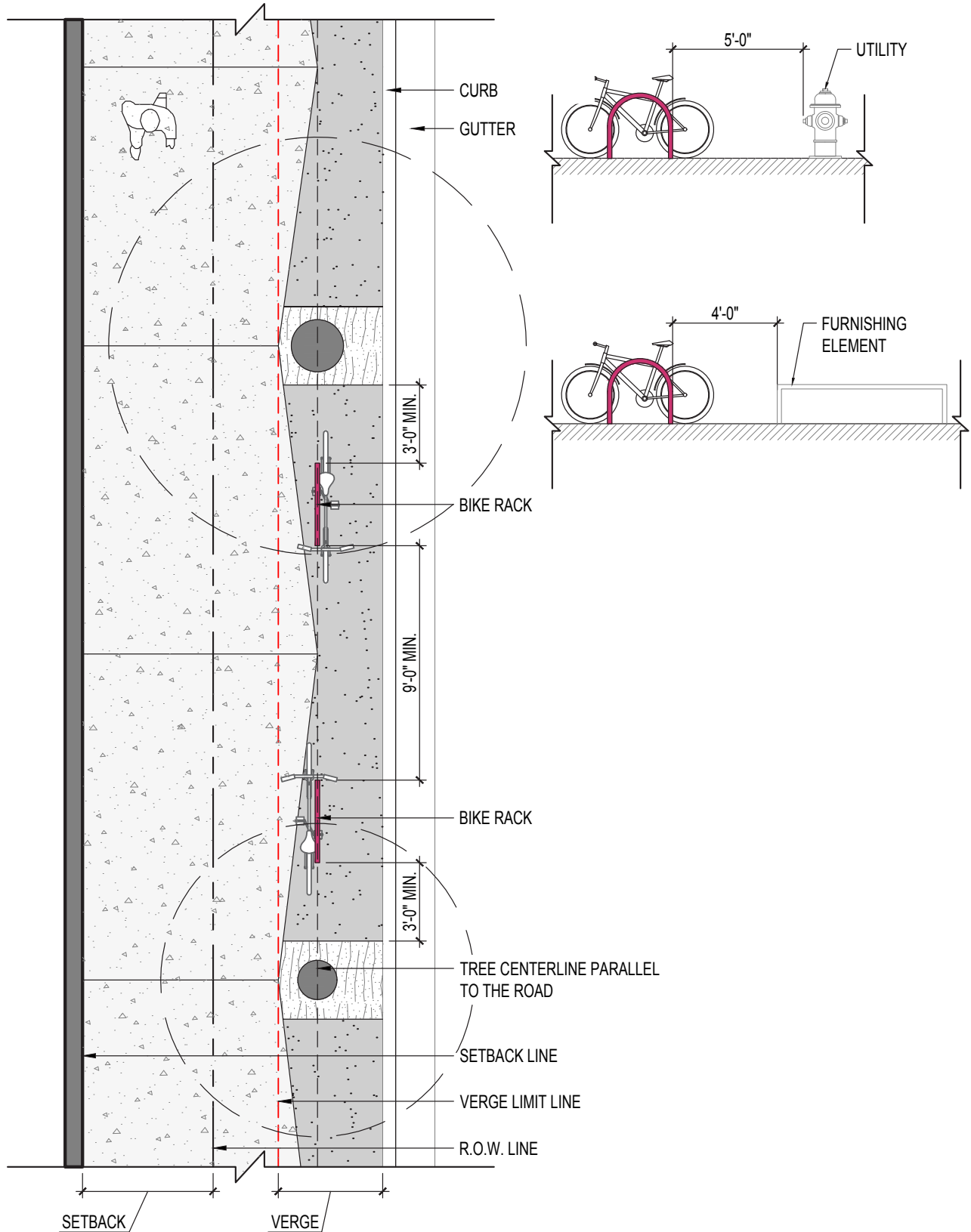


Diagram 22: STANDARD BIKE RACK LOCATION



8.6.3 ART

- a. Temporary or Permanent Art installations may be located on the NW 5th Avenue median, NW 27th Terrace, Play Streets, and in the Woonerfs. The Wynwood BID shall define eligibility, credentials, and qualifications of the artists. The art piece itself (including but not limited to materials, structure/engineering and location) is subject to approval by the City of Miami Planning and Public Works, and the Wynwood Design Review Committee (WDRC).
- b. Customized seating by artists may be located within the verge. The Wynwood BID shall define eligibility, credentials and qualifications of the artists. The chair, bench, seat or set of seats (including but not limited to materials, structure/engineering and location) is subject to approval by the City of Miami and the Wynwood Design Review Committee (WDRC). Shop drawings signed and sealed by a Florida Registered Professional Engineer shall be submitted to the City of Miami for review and approval.
- c. Within the limits shown on **Diagram 9: Creative corner** and **Diagram 13: Extended sidewalk**, a Hardscape Art installation (scoring, stamping, metal or material embeds) may be applied on the standard sidewalk concrete finish. This artistic hardscape surface shall comply with ADA and withstand the exposure to the elements such as saltwater, sun and temperatures of South Florida. Design, materials and installation of artistic hardscape surface are subject to approval by the City of Miami Planning and Public Works, and the Wynwood Design Review Committee (WDRC).

8.6.4 UTILITIES

- a. Conversion of Distribution lines to Underground is recommended. Refer to **Procedural Outline in Volume 3**.
- b. In anticipation of underground utilities in the future. Underground electrical conduits shall be provided when installing all Street Trees.
- c. All public aboveground utilities shall be located on the verge.
- d. Wynwood Standard Type 1 Roadway post may be used to install utilities at twenty (20) to thirty (30) feet above ground. Refer to **Volume 3** for specifications.
- e. Wynwood Standard Type 3 Pedestrian post may be used to install utilities at ten (10) to fifteen (15) feet above ground. Refer to **Volume 3** for specifications.

OCTOBER 2020

8.7 GUIDELINES SPECIFIC TO STREET TYPES

Illustration 8.3: STREET TYPE ILLUSTRATION

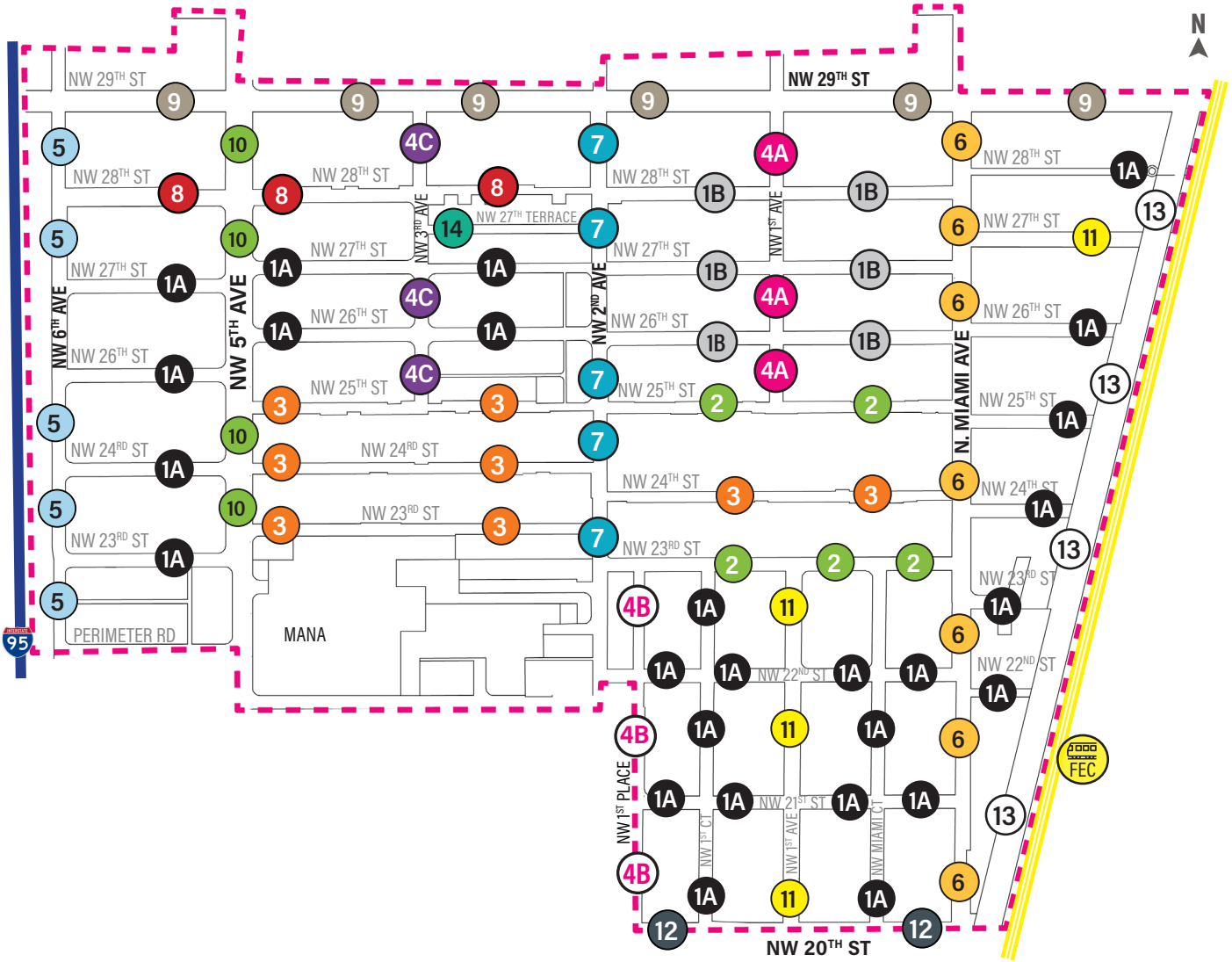
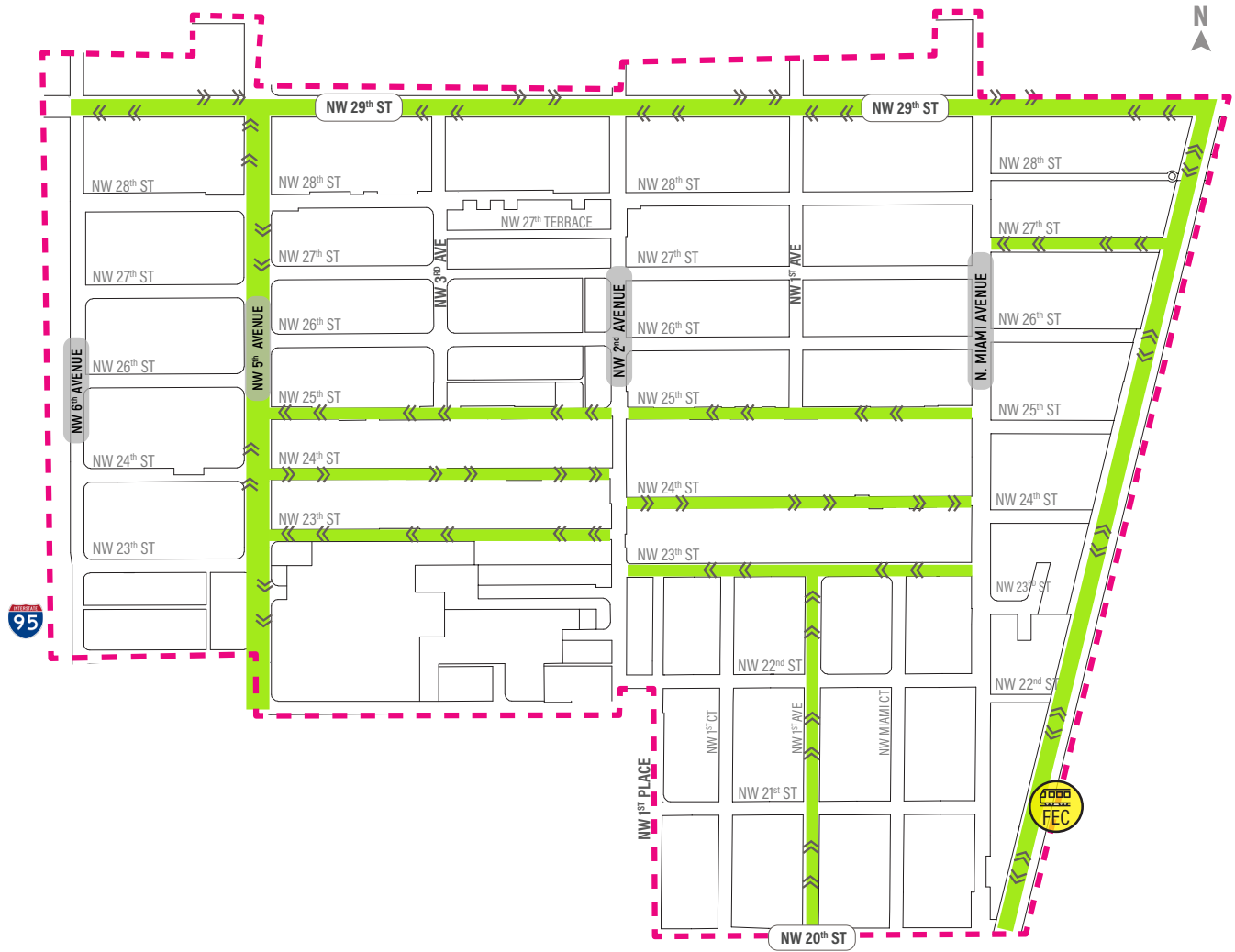


Illustration 8.4: BIKE LANE NETWORK ILLUSTRATION

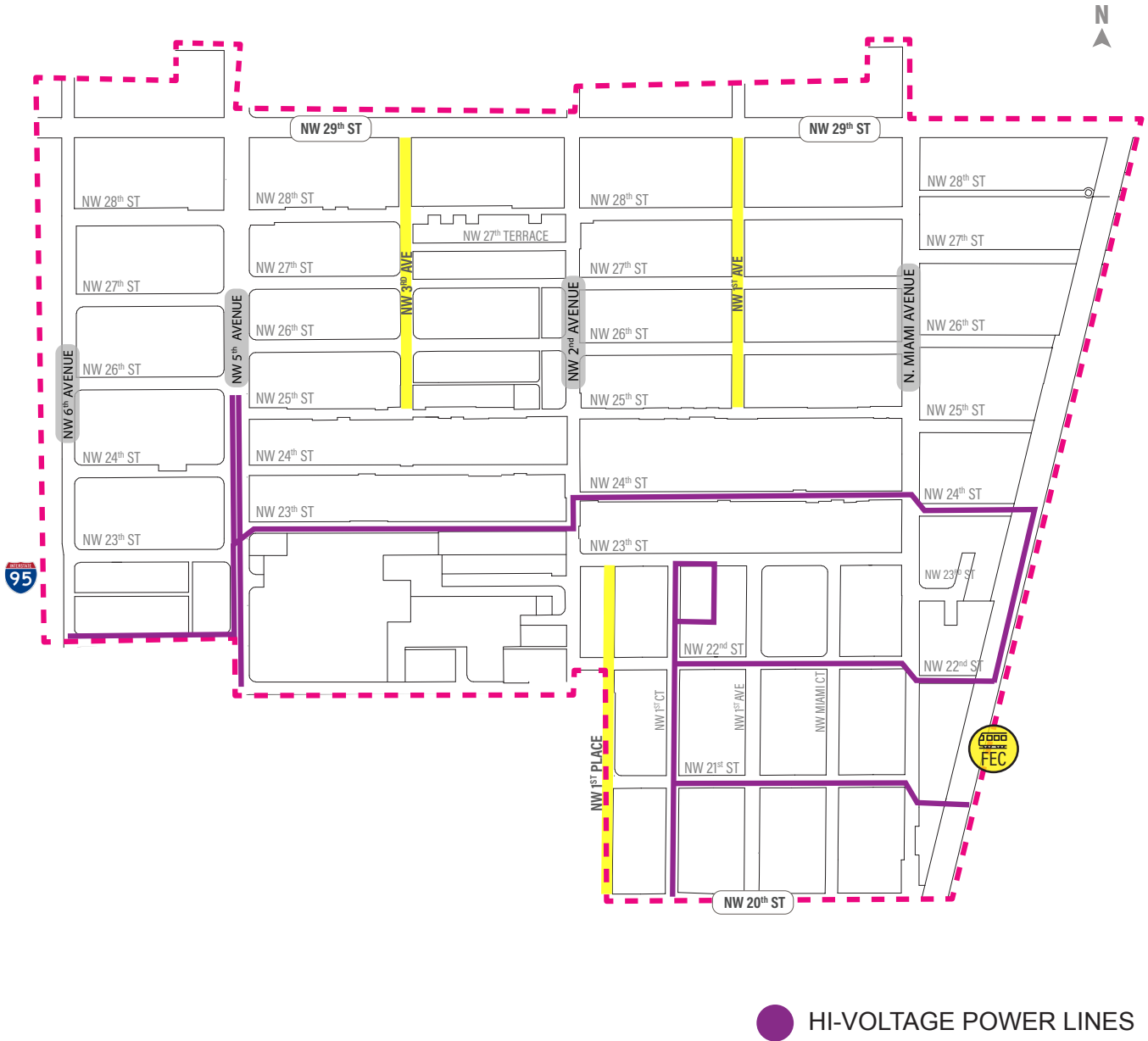


◀◀ BIKE DIRECTION

● BIKE LANE

SHARROWS ON ALL
OTHER STREETS

Illustration 8.5: HIGH VOLTAGE POWER ILLUSTRATION



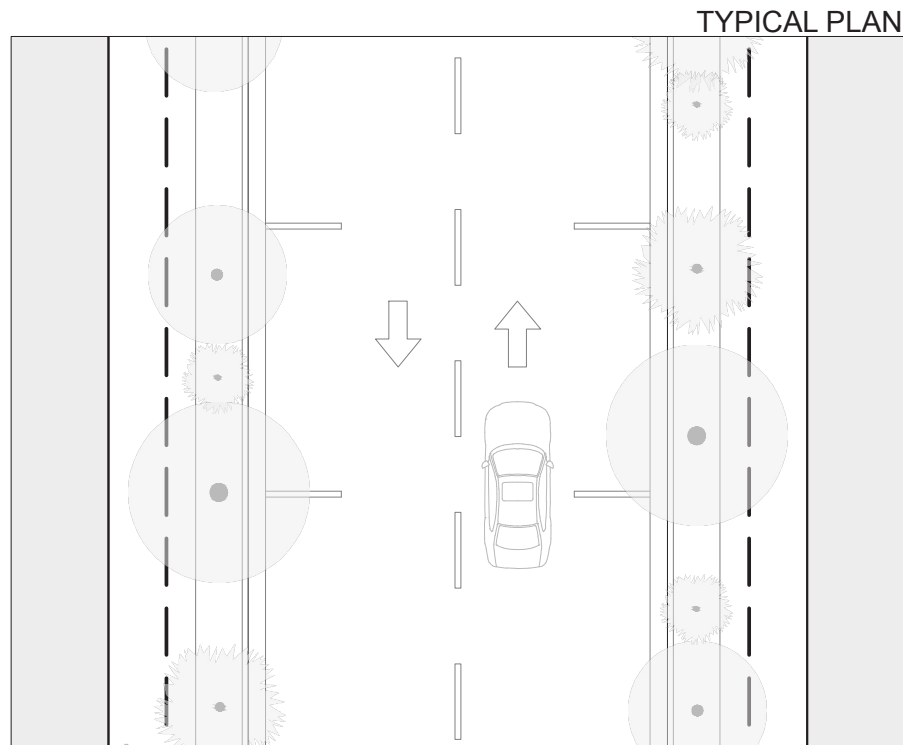
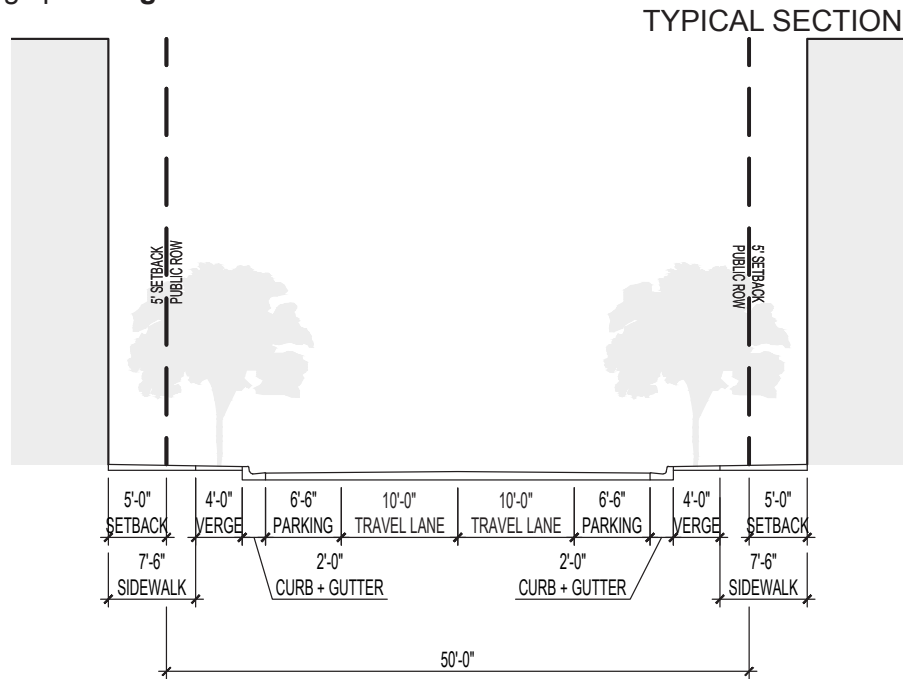
8.7.1A STREET TYPE 1A

Standard 50' R.O.W.

1A

5' established setback, curb, and gutter application

This is the most prevalent condition on the NRD-1. For specific application, reference Street Type **Illustration 8.3**. Refer to **Sections 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements. Use **Table 4: Street Tree Category List 1** and **Table 5: Street Tree Category List 2- Planter Trees**. Provide Sharrow Lane markings per **Diagram 21**.



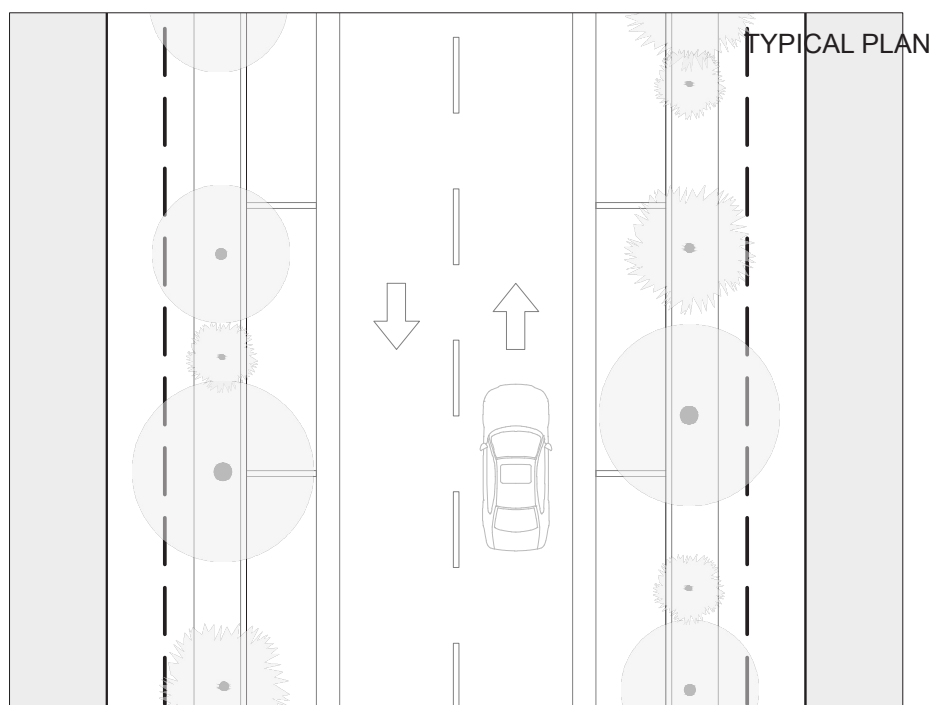
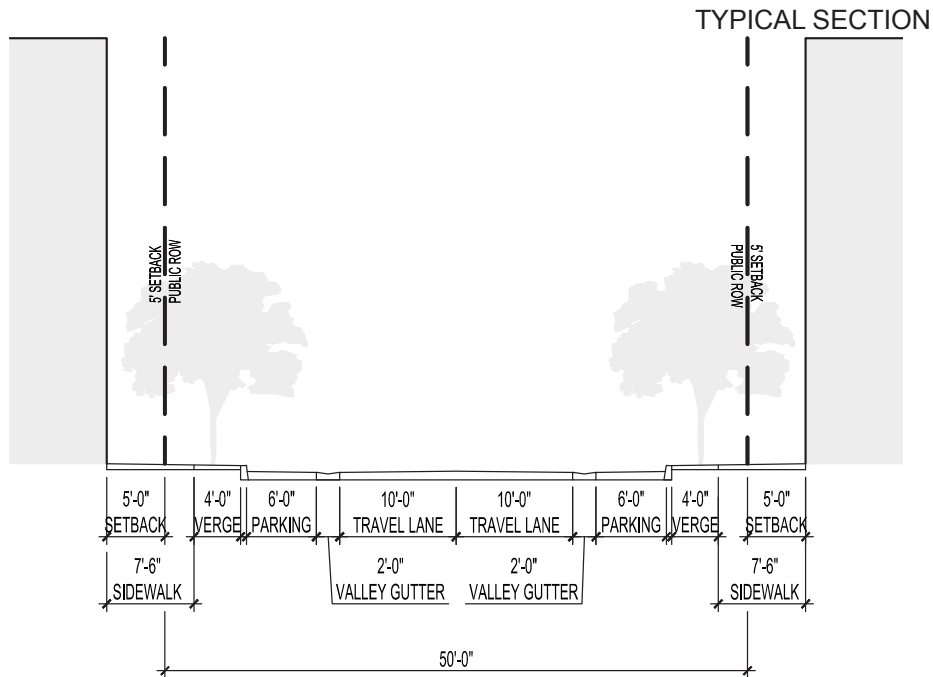
8.7.1B STREET TYPE 1B

1B

Standard 50' R.O.W.

5' established setback, valley and gutter application

Affected thoroughfares: NW 26th Street, NW 27th Street, and NW 28th Street between NW 2nd Avenue and North Miami Avenue. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements. Use **Table 4: Street Tree Category List 1** and **Table 5: Street Tree Category List 2- Planter Trees**. Provide Sharrow Lane markings per **Diagram 21**.



OCTOBER 2020

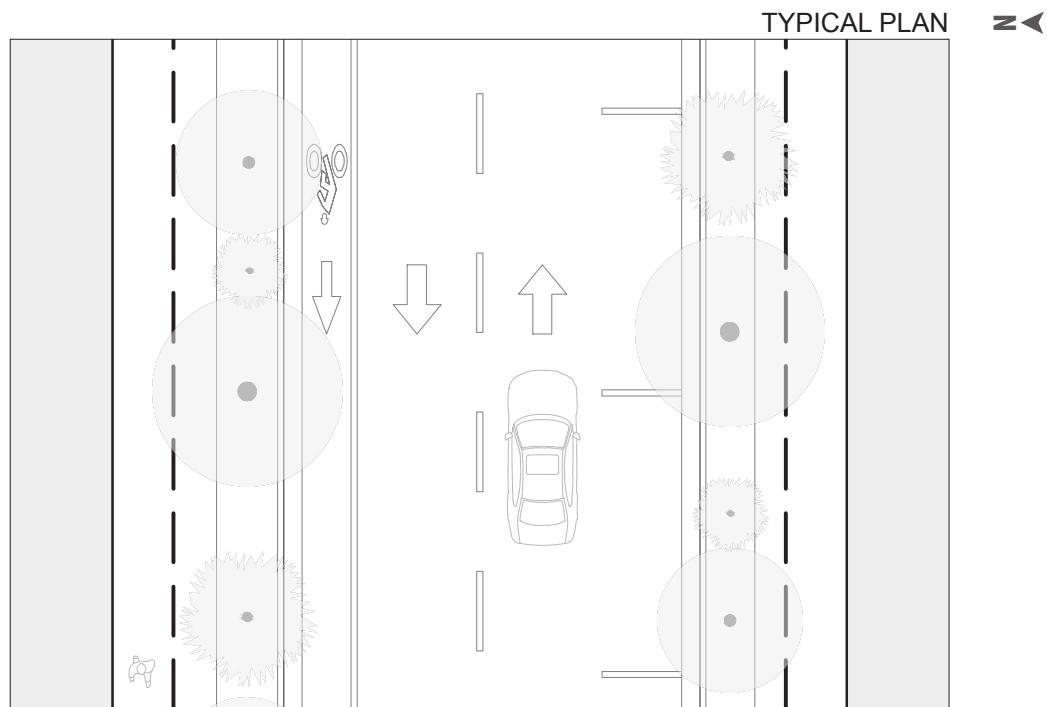
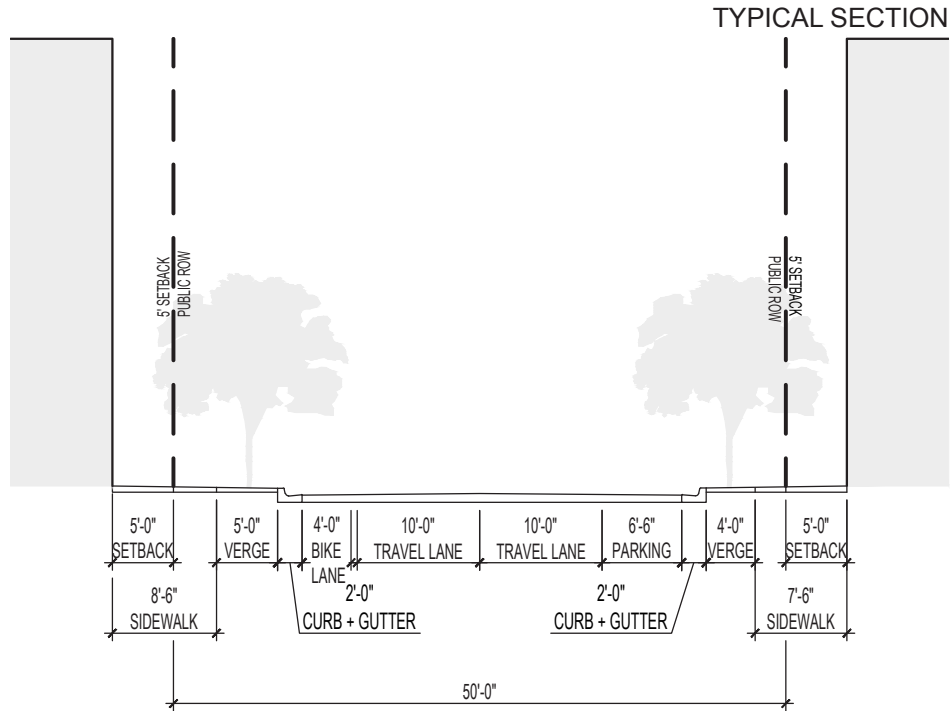
8.7.2 STREET TYPE 2

2

Standard 50' R.O.W. modified with a bike lane

5' established setback

Affected thoroughfares: NW 25th Street and NW 23rd Street between NW 2nd Avenue and N. Miami Avenue. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements. Use **Table 4: Street Tree Category List 1** and **Table 5: Street Tree Category List 2- Planter Trees**. Provide Bike Lane markings per **Diagram 22**.

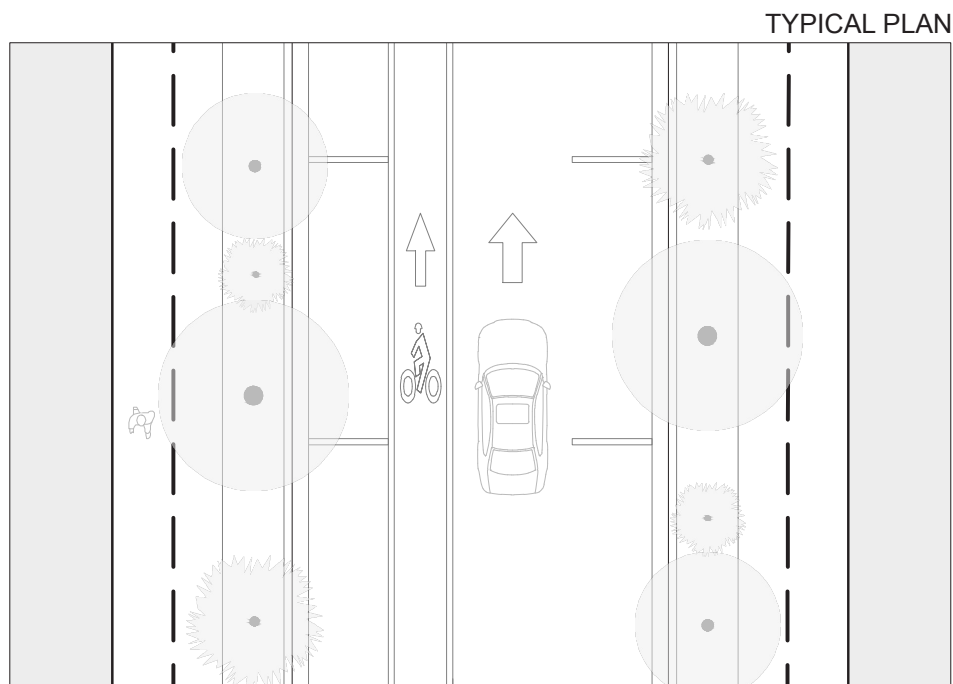
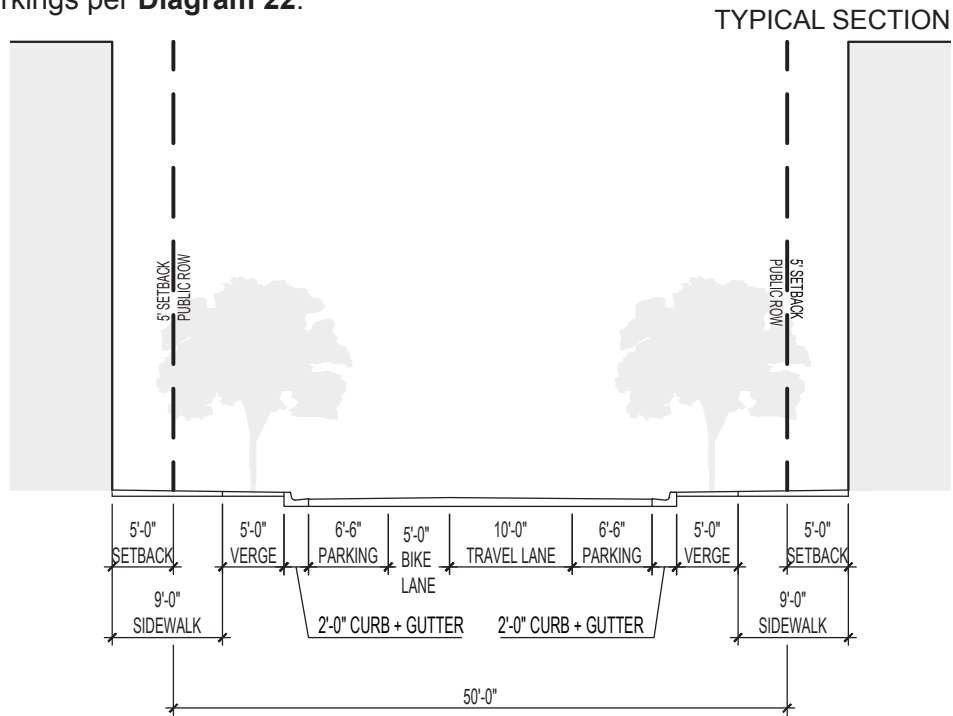


8.7.3 STREET TYPE 3

3

One-way travel lane with a bike lane
 5' established setback

Affected thoroughfares: NW 25th Street between NW 5th Avenue and NW 2nd Avenue; NW 24th Street between NW 5th Avenue and N. Miami Avenue. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements. Use **Table 4: Street Tree Category List 1** and **Table 5: Street Tree Category List 2- Planter Trees**. Provide Bike Lane markings per **Diagram 22**.



OCTOBER 2020

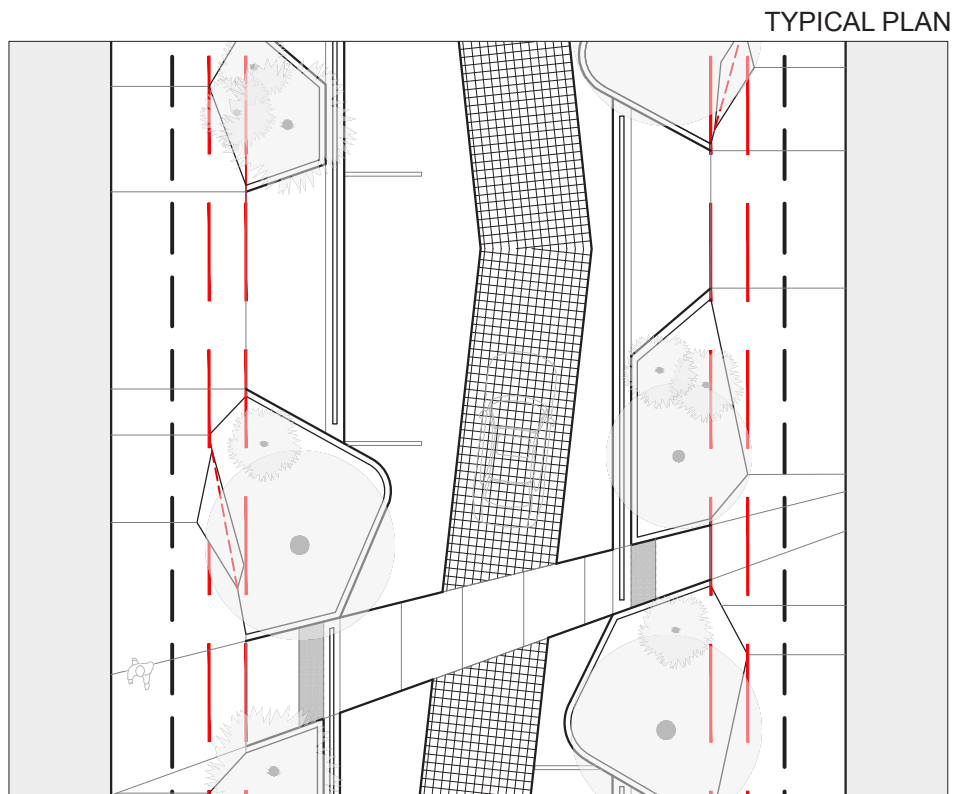
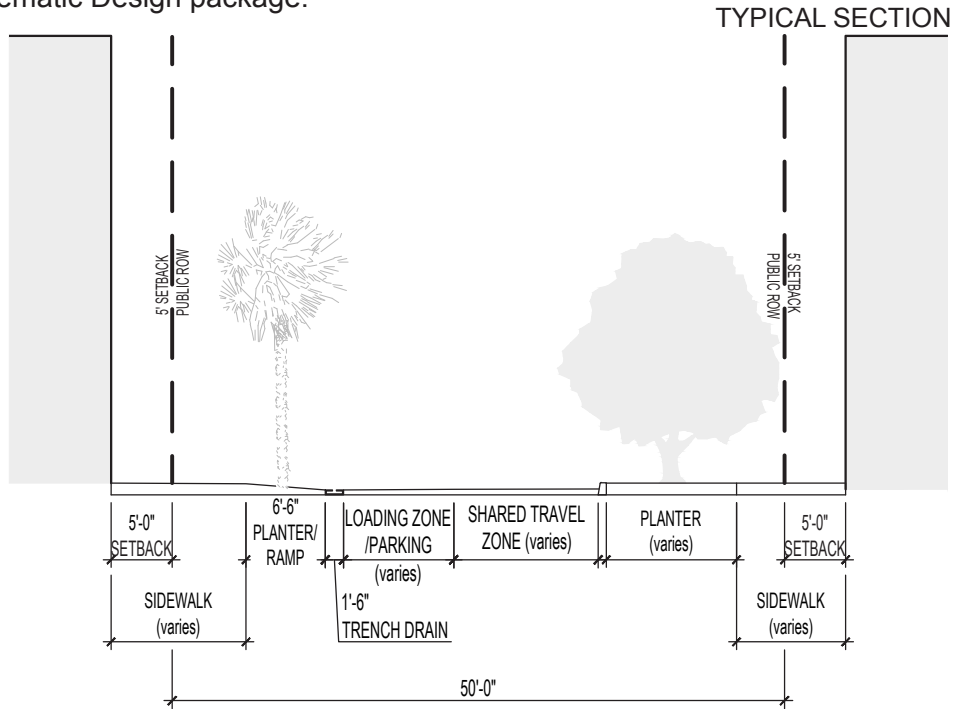
8.7.4A STREET TYPE 4A

4A

Woonerf

5' established setback

Affected thoroughfares: NW 1st Avenue between NW 29th Street and NW 25th Street.
For specific application, please reference Street Type **Illustration 8.3** and **Volume 4** for Schematic Design package.



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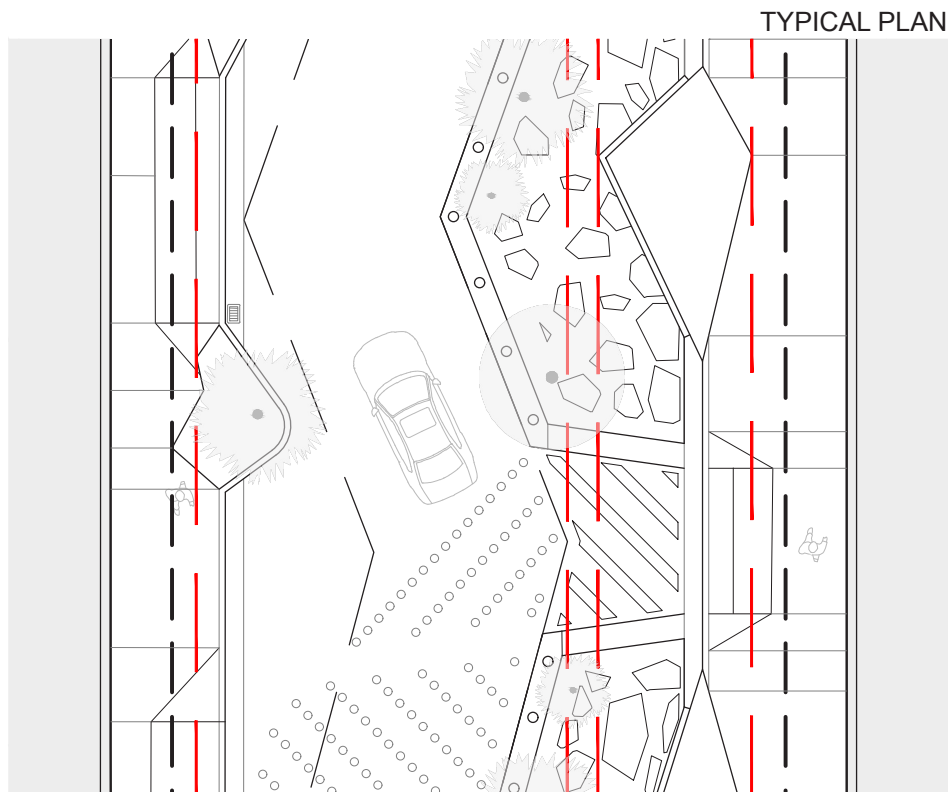
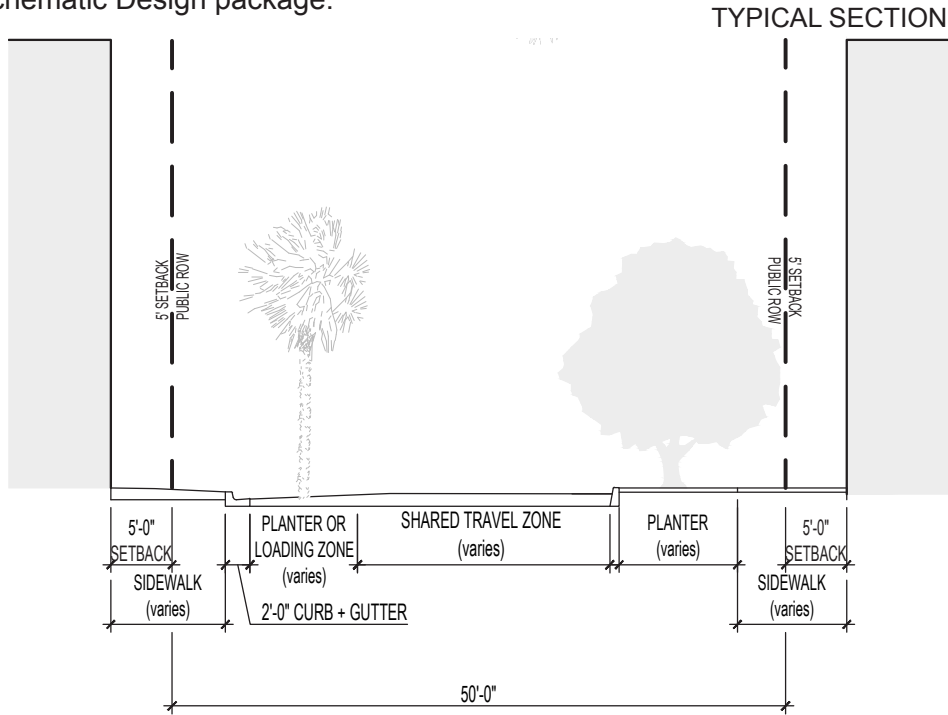
8.7.4B STREET TYPE 4B

4B

Woonerf

5' established setback

Affected thoroughfares: NW 1st Place between NW 23rd Street and NW 20th Street. For specific application, please reference Street Type **Illustration 8.3** and **Volume 4** for Schematic Design package.



OCTOBER 2020

8.7.4C STREET TYPE 4C

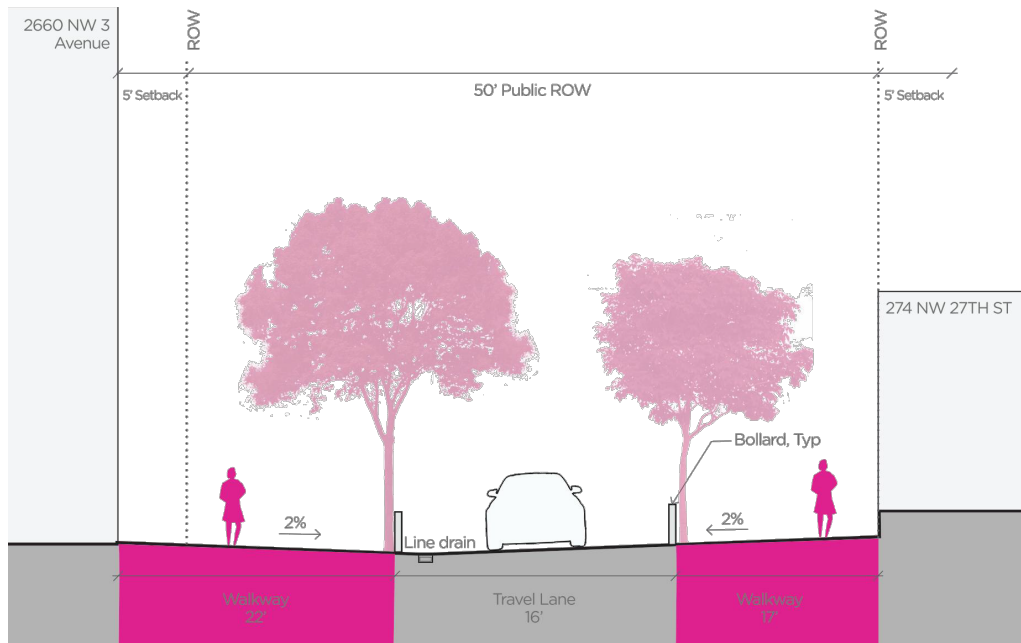


Woonerf

5' established setback

Affected thoroughfares: NW 3rd Avenue between NW 29th Street and NW 25th Street.
For specific application, please reference Street Type **Illustration 8.3** and **Volume 4** for Schematic Design package.

IN PROGRESS BY OTHERS



8.7.5 STREET TYPE 5

NW 6th Avenue between NW 29th Street and NW 22nd Street.

- a. Use **Table 4:** Street Tree Category List 1 and **Table 5:** Street Tree Category List 2- Planter Trees.
- b. Vegetation for Dense Landscape Buffer next to I-95 shall be selected from **Table 4:** Street Tree Category List 1, **Table 5:** Street Tree Category List 2 Planter Trees, and **Table 6:** Shrubs and Groundcovers/Understory List.
- c. Provide Sharrow Lane markings per **Diagram 21**.
- d. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately one hundred (100) linear feet on the east side of the street.
 2. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every sixty (60) linear feet on center on both sides of the street. On the west side of the street, posts shall be installed twenty-four (24) inches from the edge of the Bike Lane.

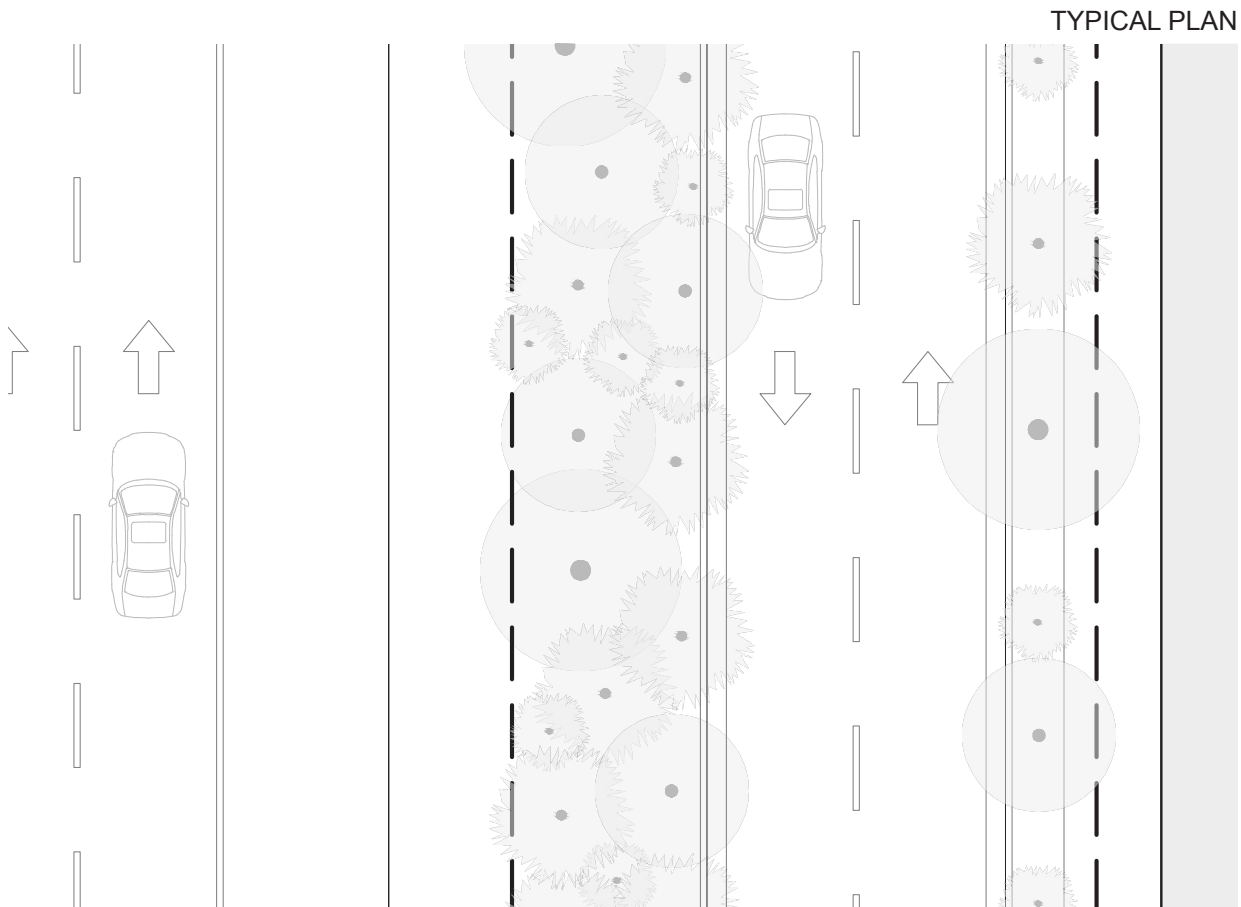
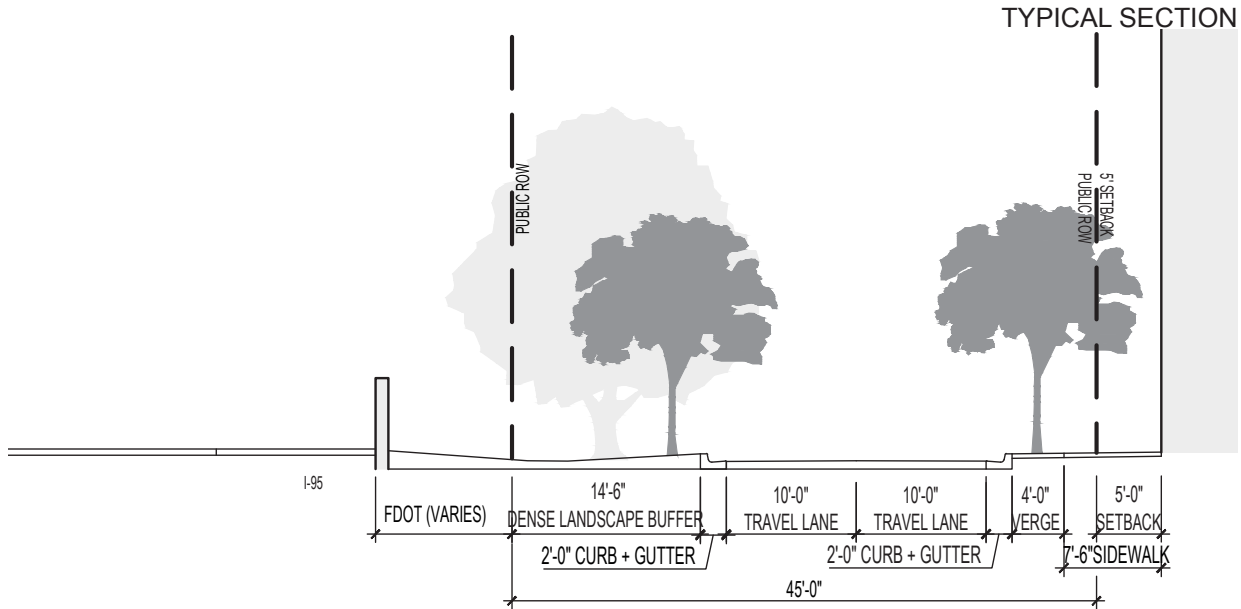
OCTOBER 2020

5

45' R.O.W. against I-95

5' established setback

Affected thoroughfares: NW 6th Avenue between NW 29th Street and Perimeter Road. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements.



8.7.6 STREET TYPE 6

North Miami Avenue between NW 29th Street and NW 20th Street

- a. Use **Table 4:** Street Tree Category List 1 and **Table 5:** Street Tree Category List 2- Planter Trees.
- b. All side streets intersecting North Miami Avenue shall have Ponytail Palms in the corner planters. Refer to **Diagram 23:** Street Type 6 corner condition.
- c. Street Tree Bonded rubber mulch shall be gold color.
- d. Provide Sharrow Lane markings per **Diagram 21**.
- e. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately one hundred and thirty (130) linear feet on alternating street sides.
 2. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every sixty (60) linear feet on center on both sides of the street.
- f. Proposed modification to street section geometry shall be coordinated with Miami-Dade County Department of Transportation and Public Works. All ROW improvements shall be coordinated with MDC-DTPW.

6

North Miami Avenue
5' established setback

Affected thoroughfares: North Miami Avenue between NW 29th Street and NW 20th Street.
For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements.

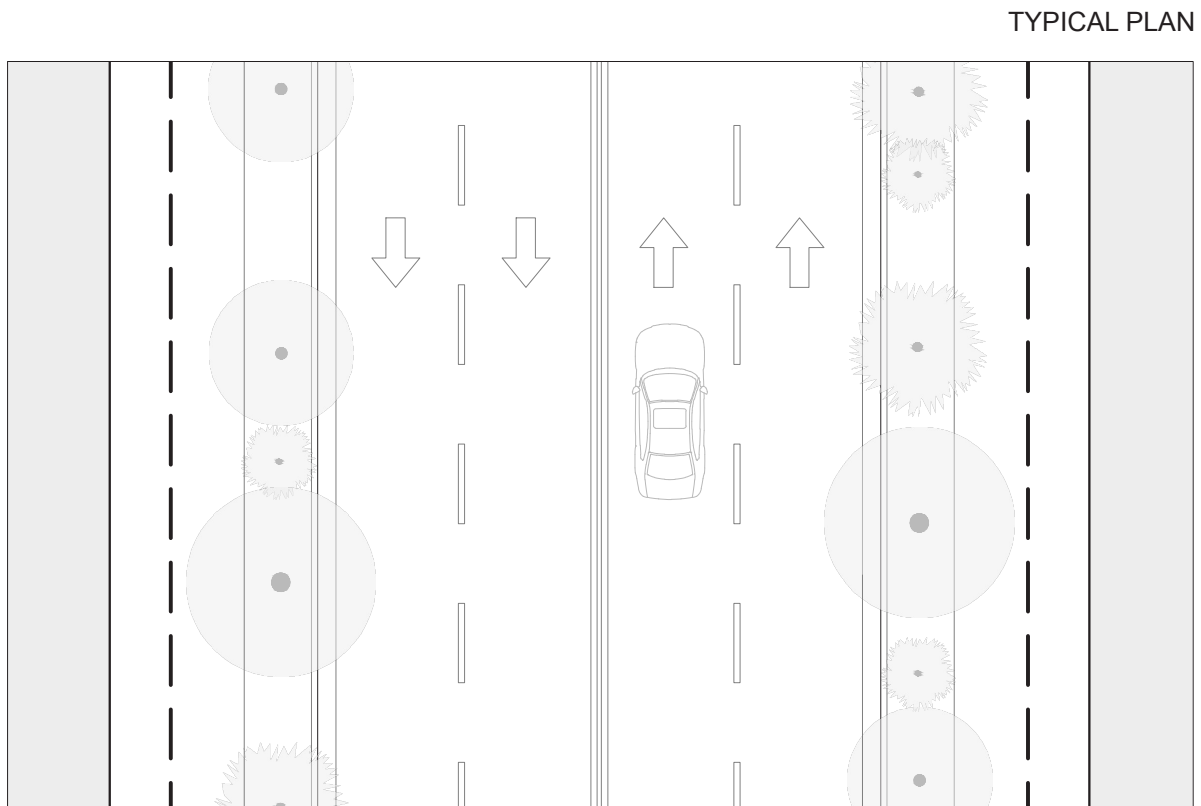
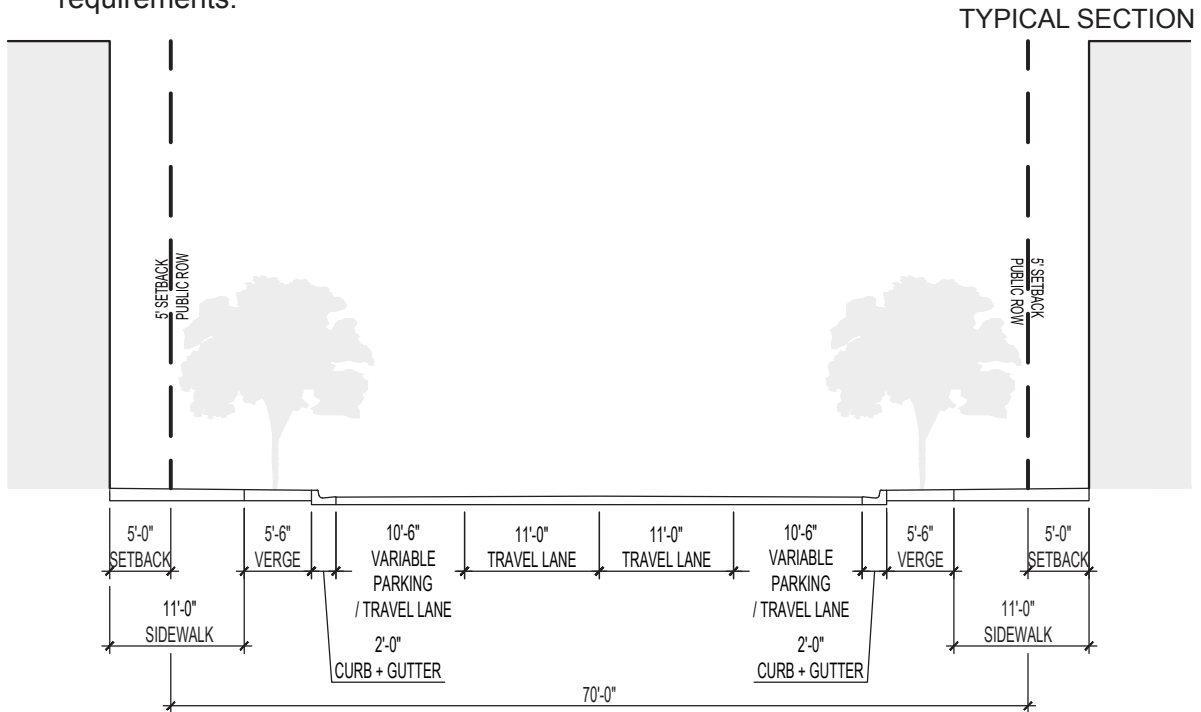
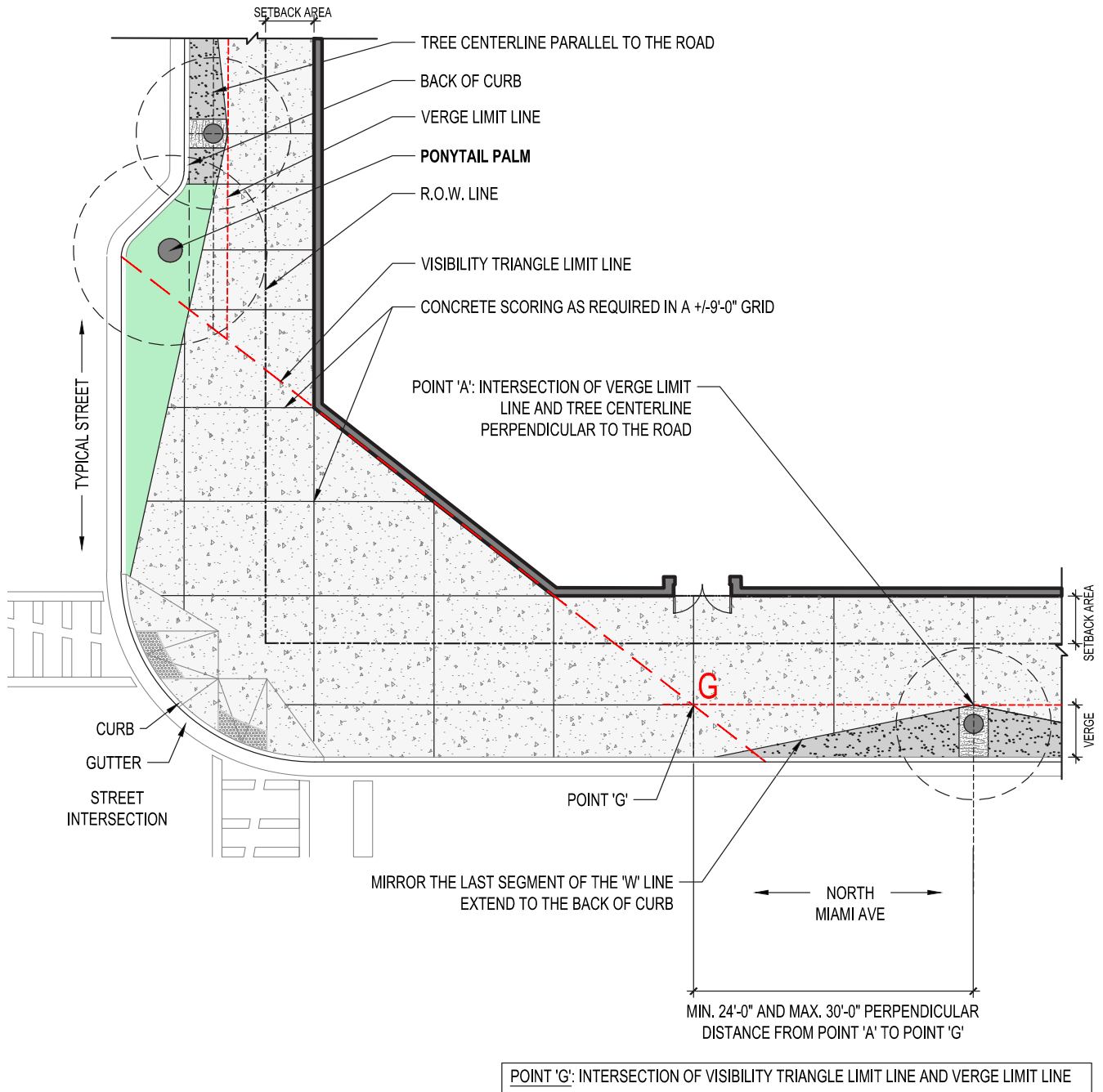


Diagram 23: STREET TYPE 6 CORNER CONDITION



8.7.7 STREET TYPE 7

NW 2nd Avenue between NW 29th Street and NW 22nd Street

- a. Use **Table 4:** Street Tree Category List 1 and **Table 5:** Street Tree Category List 2- Planter Trees.
- b. Street Tree distribution shall be seventy (70) percent Palms and thirty (30) percent Trees.
- c. A bioswale planter shall be incorporated at every bus stop on NW 2nd Avenue. Coordinate with Miami-Dade County Department of Transportation and Public Works and refer to **Diagram 24:** Street Type 7 Parking Lane Planter 3 - Bioswale. Use **Table 10:** Bioswale Planting list for the bioswale planters
- d. Street Tree Bonded rubber mulch shall be gold color.
- e. Provide Sharrow Lane markings per **Diagram 21.**
- f. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately one hundred and thirty (130) linear feet on alternating street sides.
 2. Wynwood Standard Type 3 (Arne) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every sixty (60) linear feet on center on both sides of the street.
- g. Proposed modification to street section geometry shall be coordinated with Miami-Dade County Department of Transportation and Public Works. All ROW improvements shall be coordinated with MDC-DTPW.

OCTOBER 2020

7

70' R.O.W.

0' established setback

Affected thoroughfares: NW 2nd Avenue between NW 29th Street and NW 22nd Street. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements.

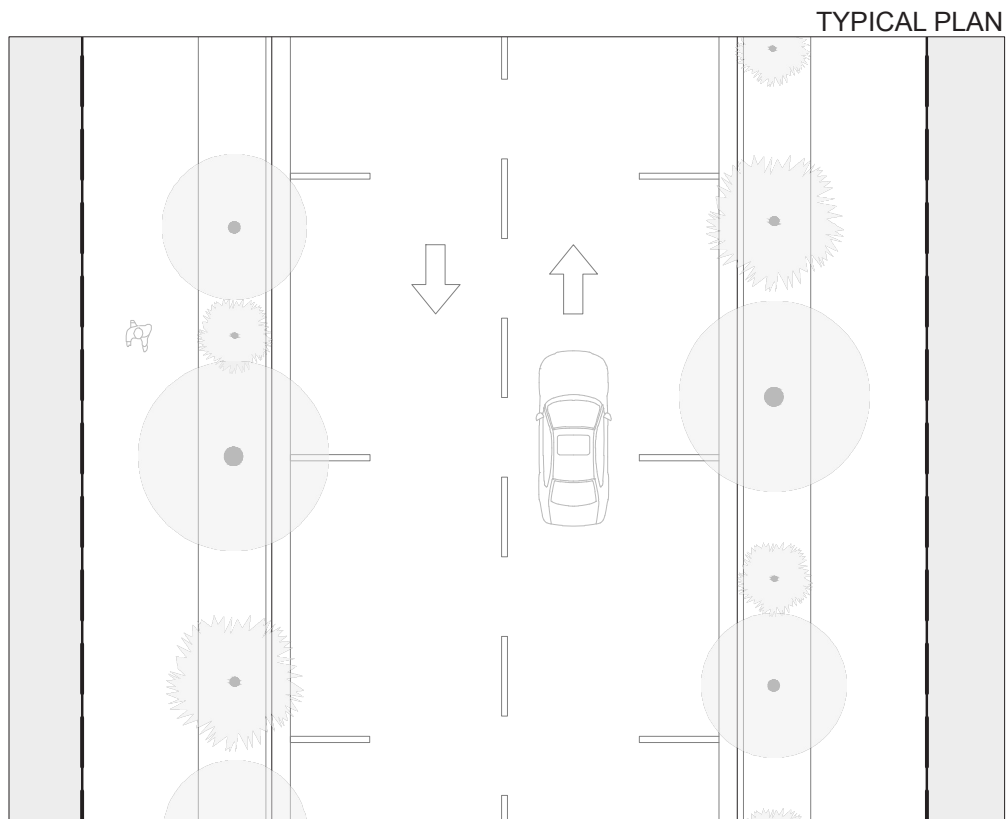
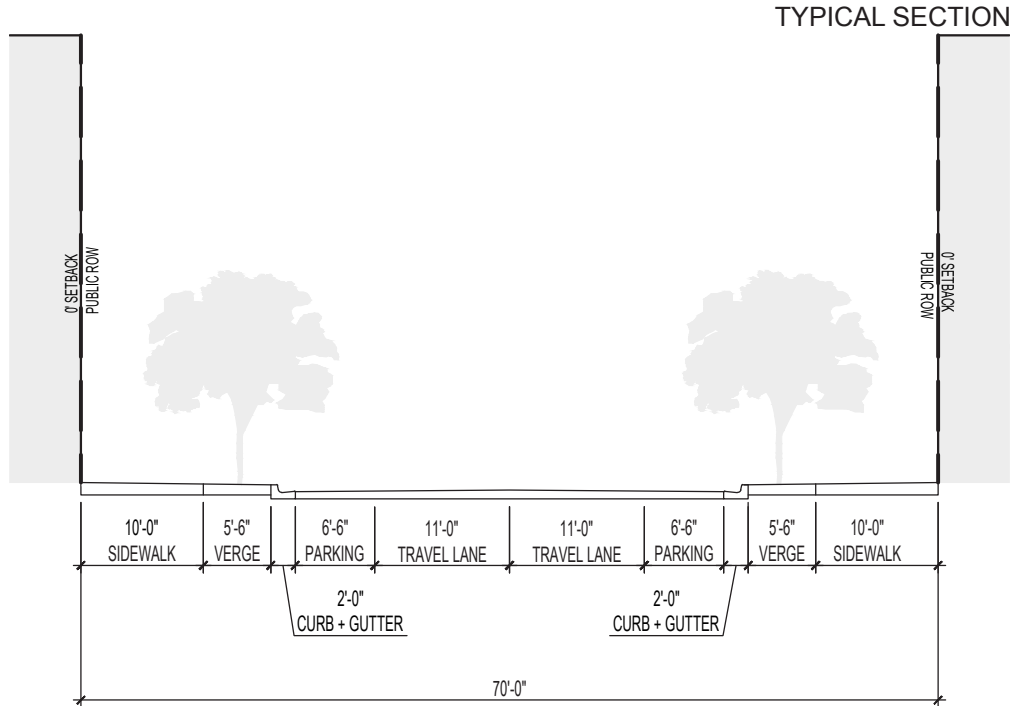
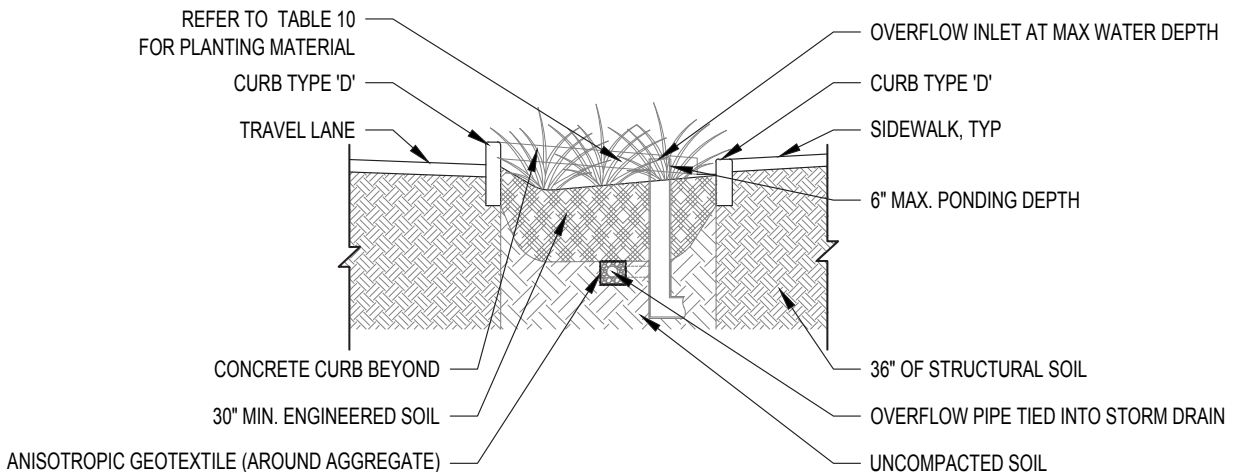
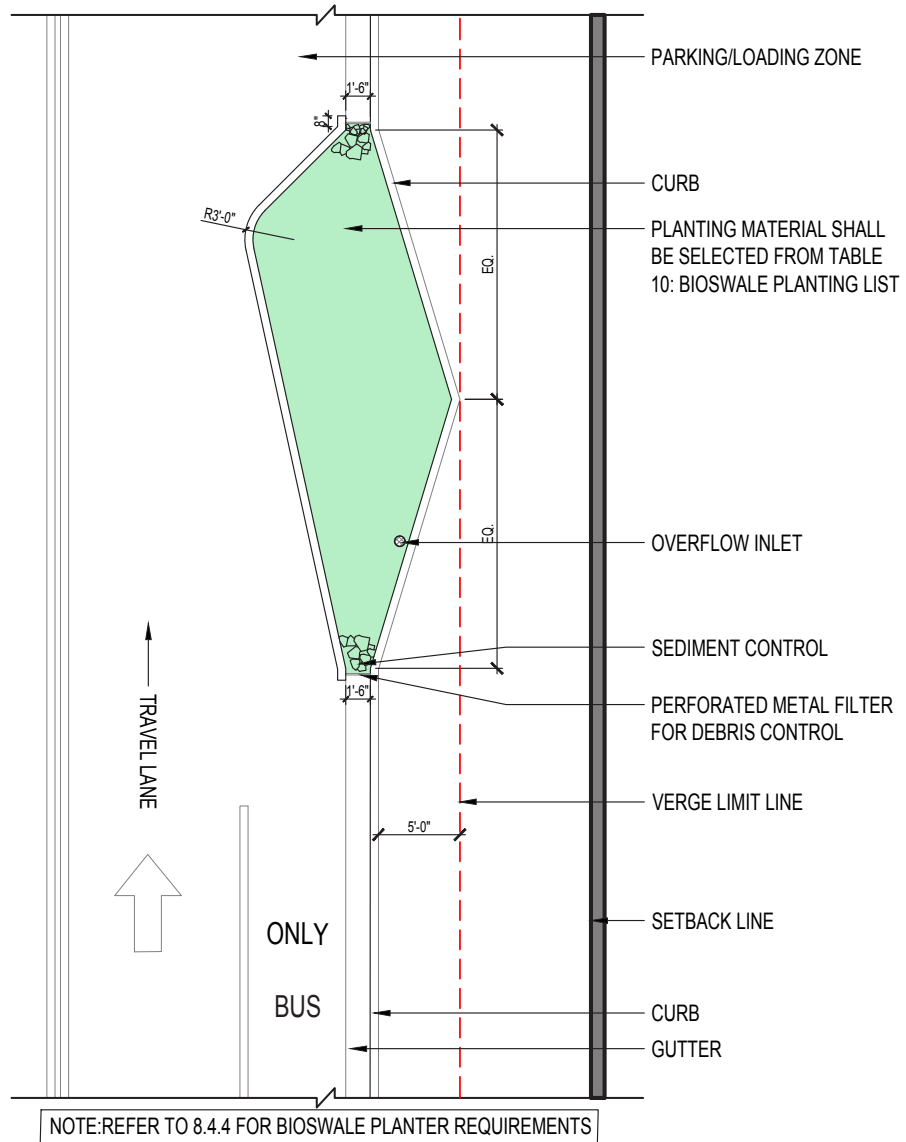


Diagram 24: STREET TYPE 7 PARKING LANE PLANTER 3- BIOSWALE



8.7.8 STREET TYPE 8

NW 28th Street between NW 2nd Avenue and NW 3rd Avenue.

- a. Follow **Diagram 25**: Street Type 8 Hardscape Design and **Diagram 27**: Street Type 8 Planter Design.
- b. Use **Table 4**: Street Tree Category List 1, **Table 5**: Street Tree Category List 2 Planter Trees and **Table 9**: Shrubs and Groundcovers/Understory List.
 1. A minimum of one (1) Planter is required per frontage.
 - i. Minimum distance between adjacent Planters is sixteen (16) linear feet.
 - ii. Planters shall be a minimum of two (2) linear feet away from the Lot line.
 2. On frontages of up to fifty (50) feet in length, provide Planter(s) with a planting bed length of minimum forty (40) percent, maximum fifty (50) percent of frontage length.
 - i. A Planter is not required if there is another Planter less than twenty (20) feet from Frontage or Lot line.
 - ii. Minimum planting bed length on frontages of fifty (50) feet or less is ten (10) feet.
 3. On frontages of fifty-one (51) feet or greater, provide Planter(s) with a planting bed length of minimum thirty (30) percent, maximum fifty (50) percent of frontage length.
 - i. Minimum planting bed length on frontages fifty-one (51) feet or greater, is twenty (20) feet.
 4. On frontages of one hundred (100) feet or greater, provide Planter(s) with a planting bed length of minimum thirty (30) percent, maximum fifty (50) percent of frontage length.
 - i. Maximum planting bed length on frontages one hundred and one (101) feet or greater is forty (40) feet.
 5. A minimum of one (1) tree shall be planted between Planters at a minimum distance of five (5) feet from the corner of the planting bed.
 6. A minimum of one (1) tree shall be planted inside each Planter. Tree locations inside the Planters may deviate from the center of Street Tree center line but must comply with the minimum tree spacing required in guidelines.
 7. Trees or palms on corner planters count as part of the Street Tree Requirements.
- c. Provide Sharrow Lane markings per **Diagram 21**.
- d. Seating shall be provided on Street Type 8.
 1. W- Bench series shall be installed on Street Type 8.
 2. Refer to **Diagram 28**: Street Type 8 Bench location diagram.
- e. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every three hundred (300) linear feet on alternating street sides.
 2. Wynwood Standard Type 3 (Arne) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every sixty (60) linear feet on the same or alternating street sides.
- f. Proposed street section geometry modifications shall require approval from Miami-Dade County Department of Transportation and Public Works. Additional modifications to proposed street section geometry may be required at schematic design and construction drawing phase.

OCTOBER 2020

8

70' R.O.W.

5' established setback

Affected thoroughfares: NW 28th Street between NW 6th Avenue and NW 2nd Avenue. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements.

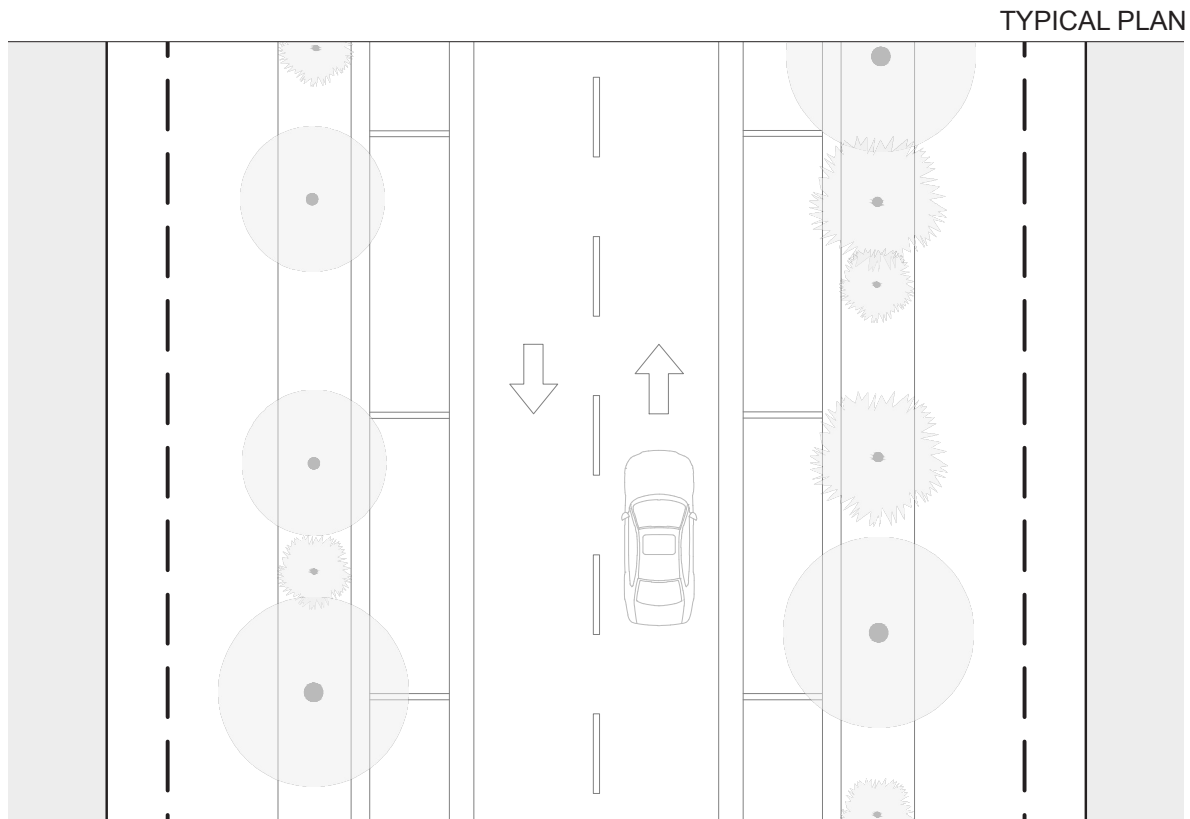
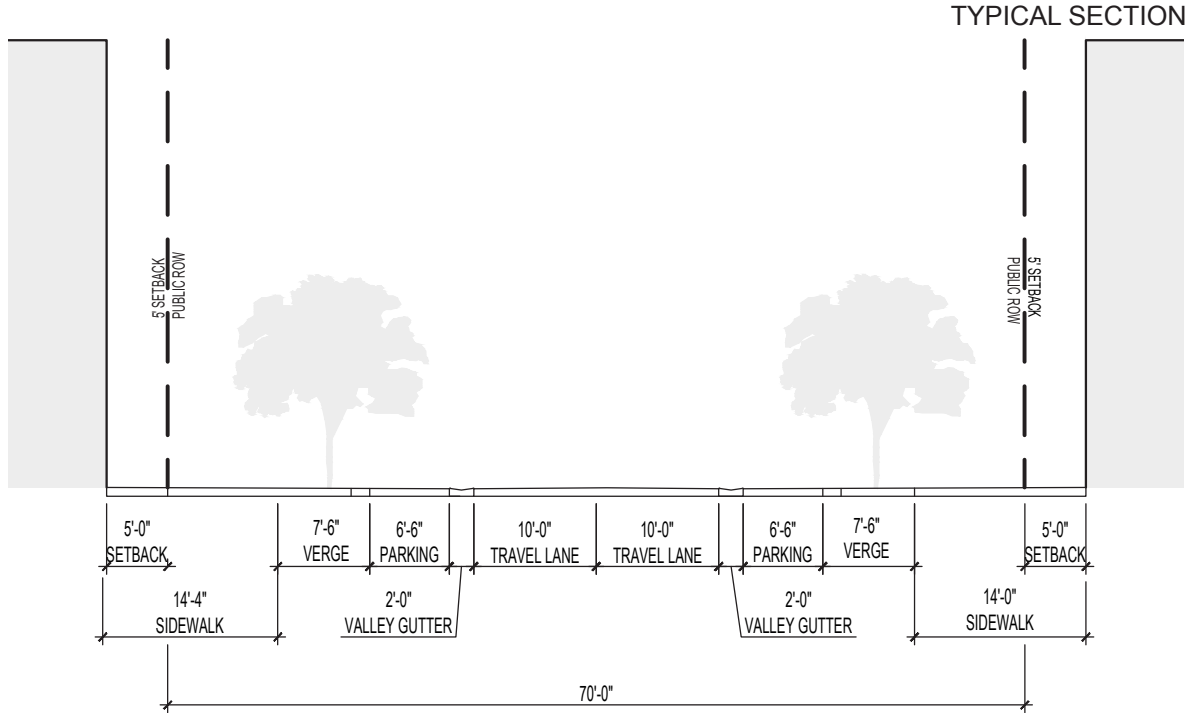


Diagram 25: STREET TYPE 8 HARDSCAPE DESIGN

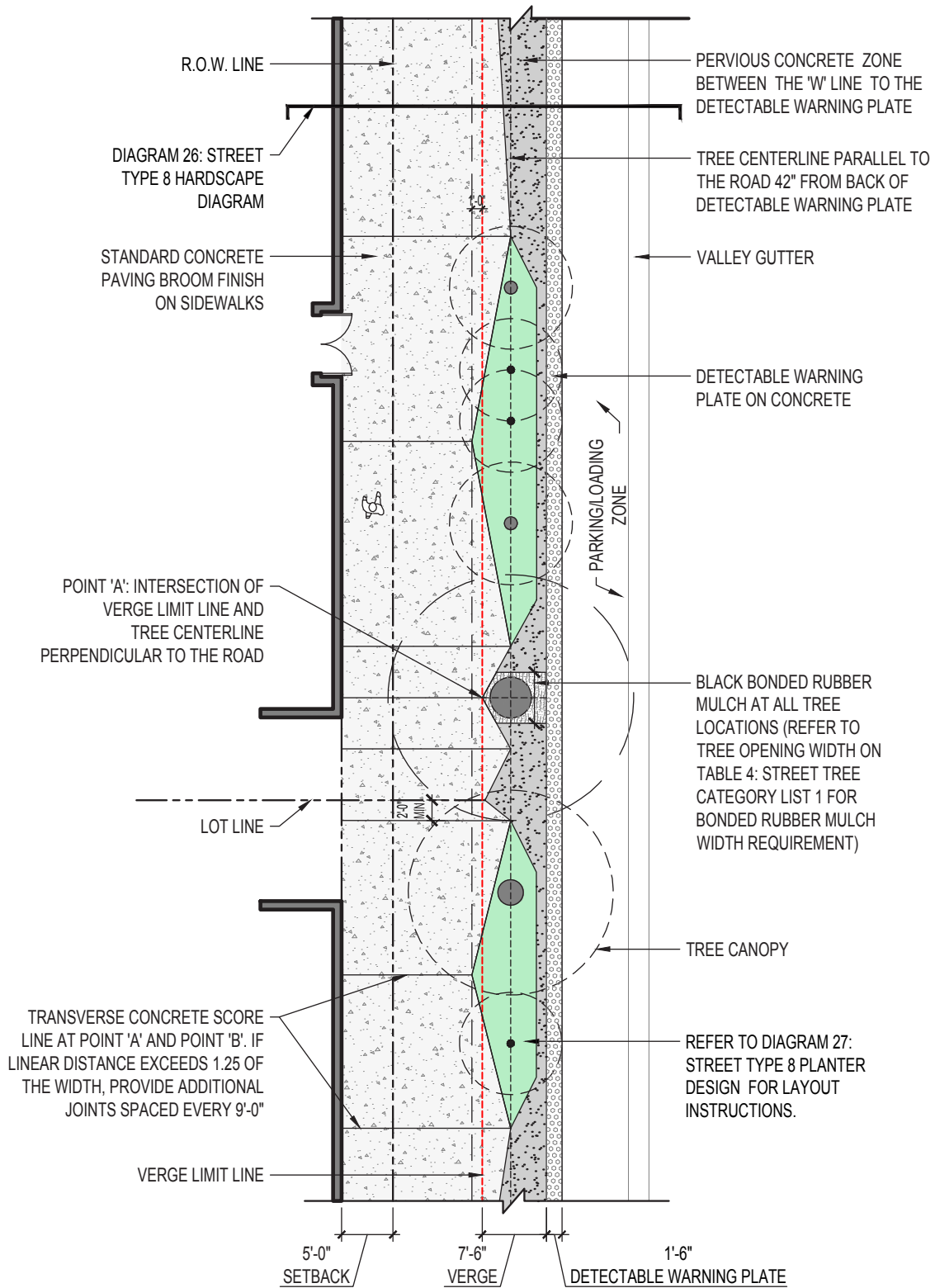


Diagram 26: STREET TYPE 8 HARDSCAPE DIAGRAM

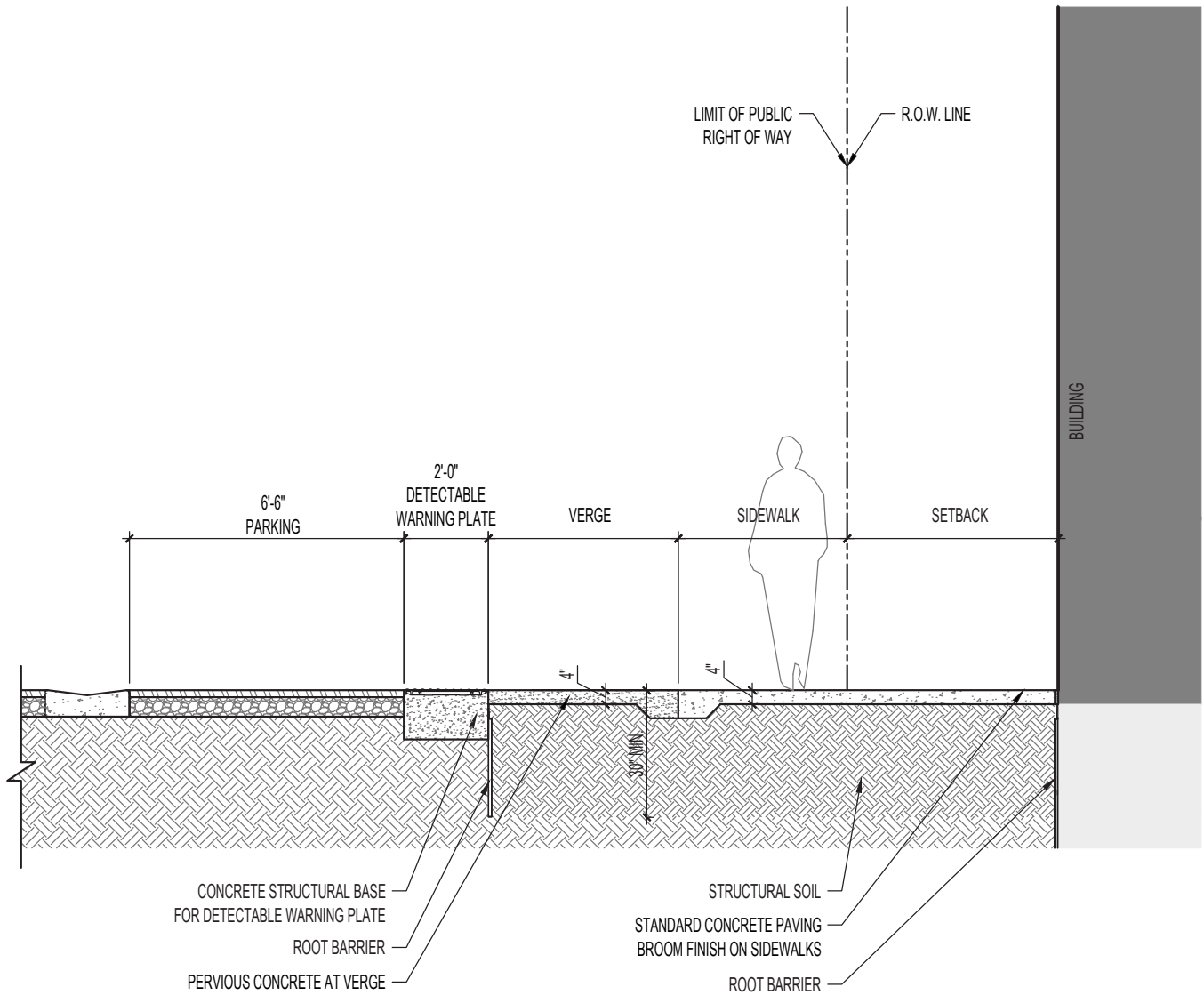
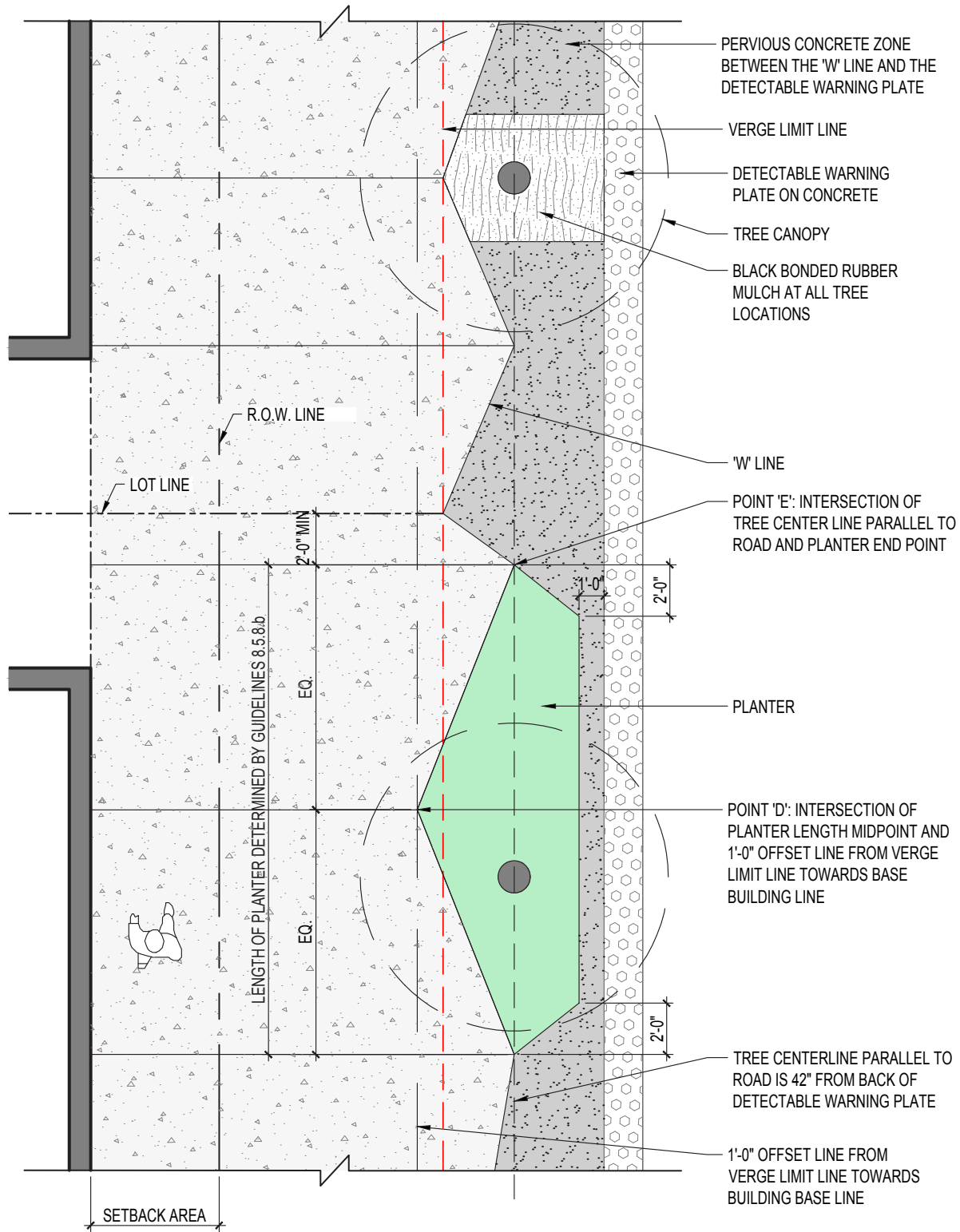
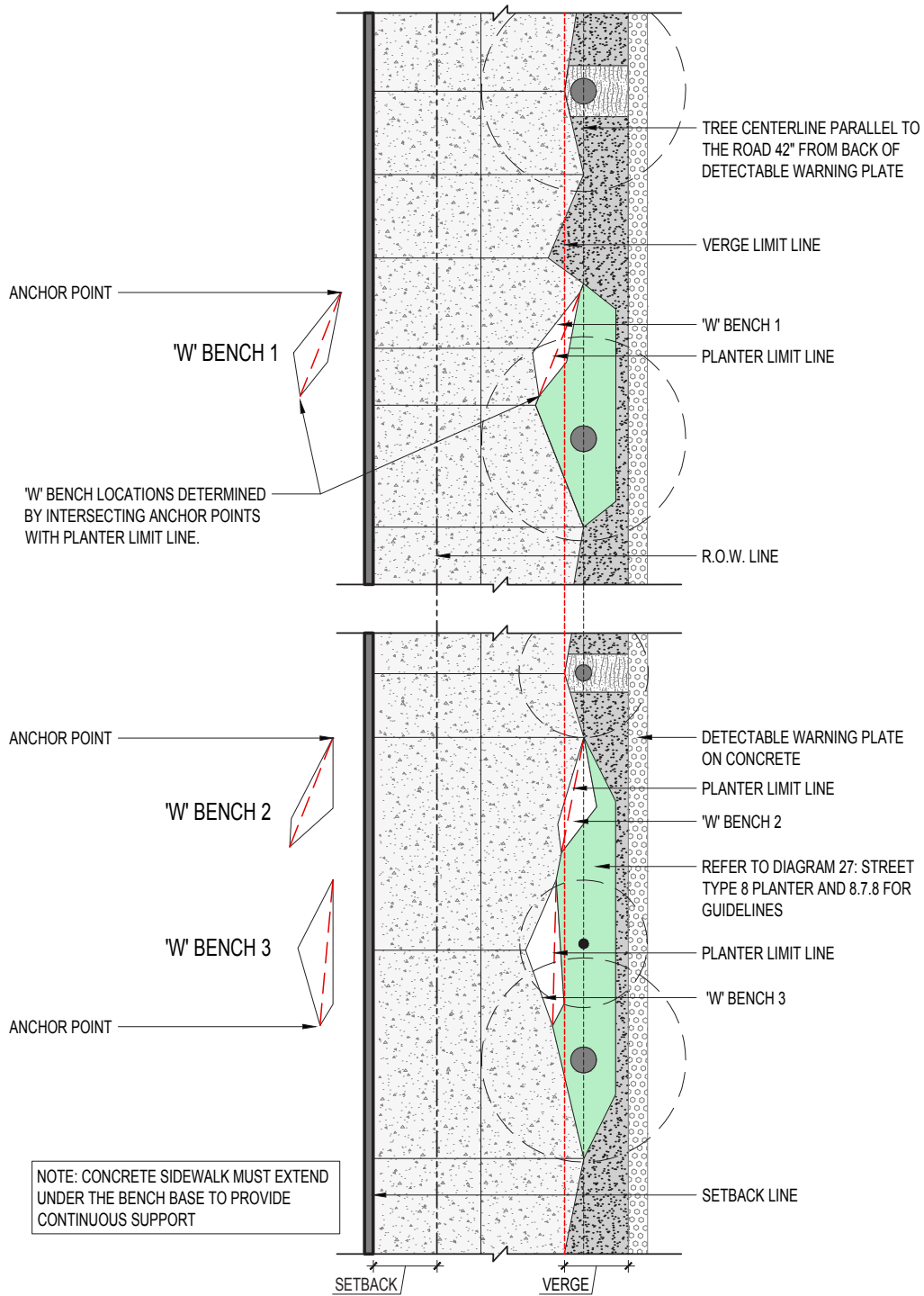


Diagram 27: STREET TYPE 8 PLANTER DESIGN



OCTOBER 2020

Diagram 28: STREET TYPE 8 BENCH LOCATION



8.7.9 STREET TYPE 9

NW 29th Street between 1-95 and the FEC Railway Corridor.

- a. Follow **Diagram 29**: Street Type 9 Hardscape Design and **Diagram 30**: Street Type 9 Corner Condition.
- b. Use **Table 4**: Street Tree Category List 1, **Table 5**: Street Tree Category List 2 Planter Trees and **Table 9**: Shrubs and Groundcovers/Understory List.
- c. Trees in median shall be selected from **Table 5**: Street Tree Category List 2 Planter Trees and **Table 9**: Shrubs and Groundcovers/Understory List.
- d. Provide Bike Lane markings per **Diagram 22**.
- e. FDOT approved green color required on portions of the Bike Lane interrupted by driveways.
- f. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every one-hundred and sixty (160) linear feet on both sides of the street. Alternating with the Pedestrian Light Posts.
 2. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every one-hundred and sixty (160) linear feet on both sides of the street. Alternating with the Type 1 Roadway Light Posts.
- g. Proposed street section geometry modifications shall require approval from Miami-Dade County Department of Transportation and Public Works. Additional modifications to proposed street section geometry may be required at schematic design and construction drawing phase.

OCTOBER 2020

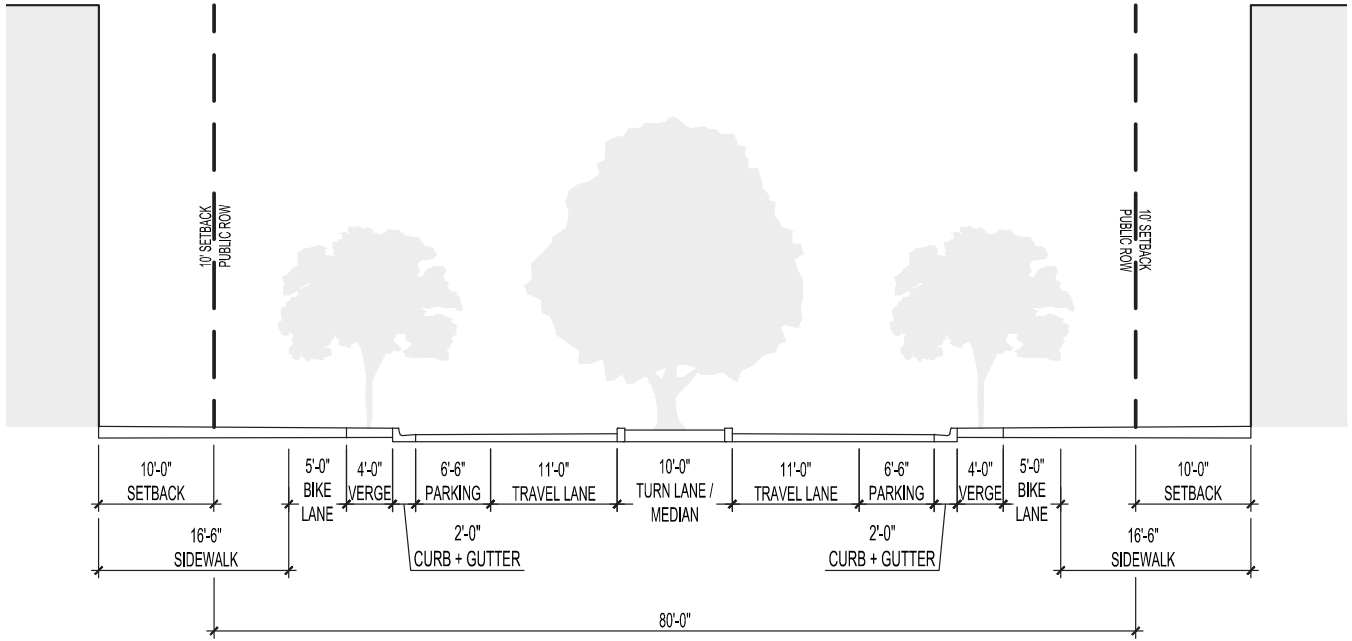
9

80' R.O.W.

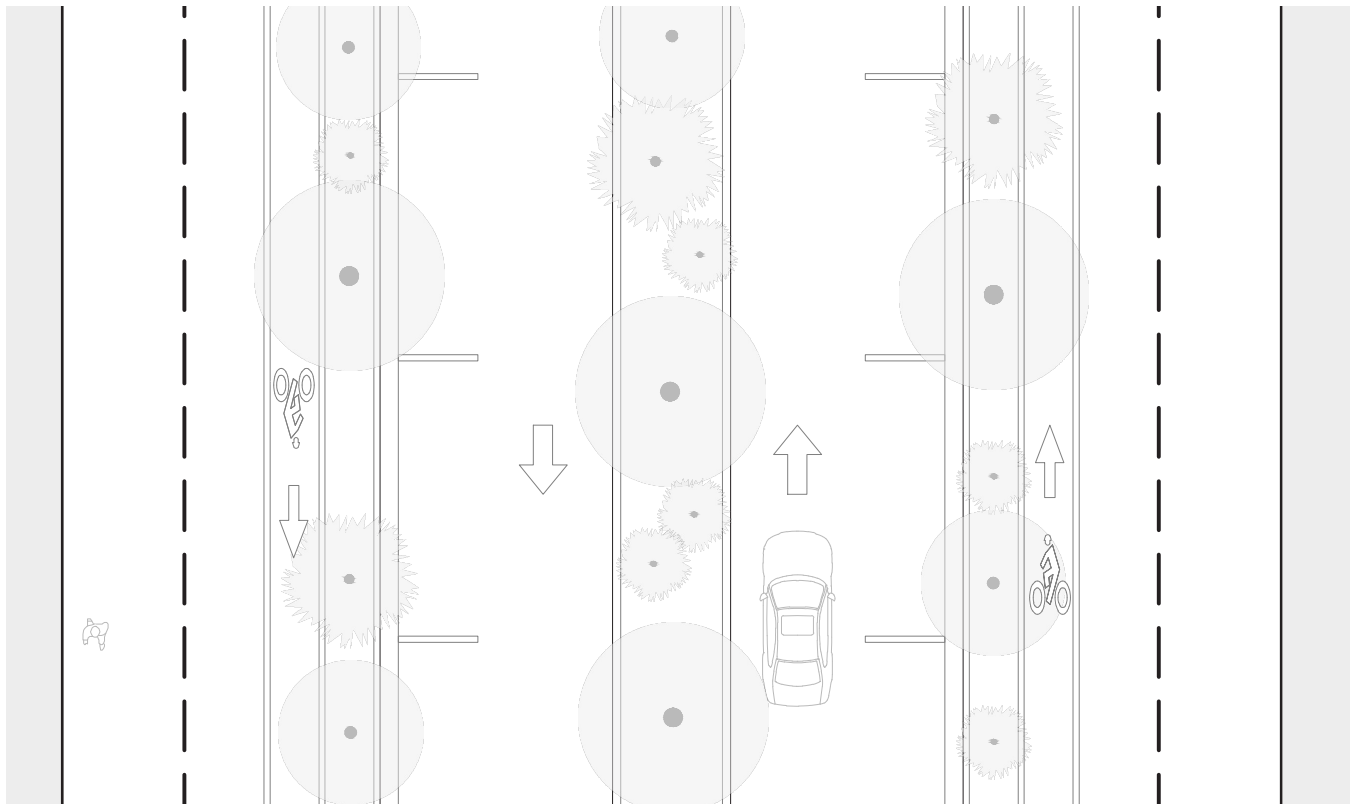
NW 29th Street approved road diet

Affected thoroughfares: NW 29th Street between I-95 and the FEC Railway Corridor. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements.

TYPICAL SECTION



TYPICAL PLAN



OCTOBER 2020

Diagram 29: STREET TYPE 9 HARDSCAPE DESIGN

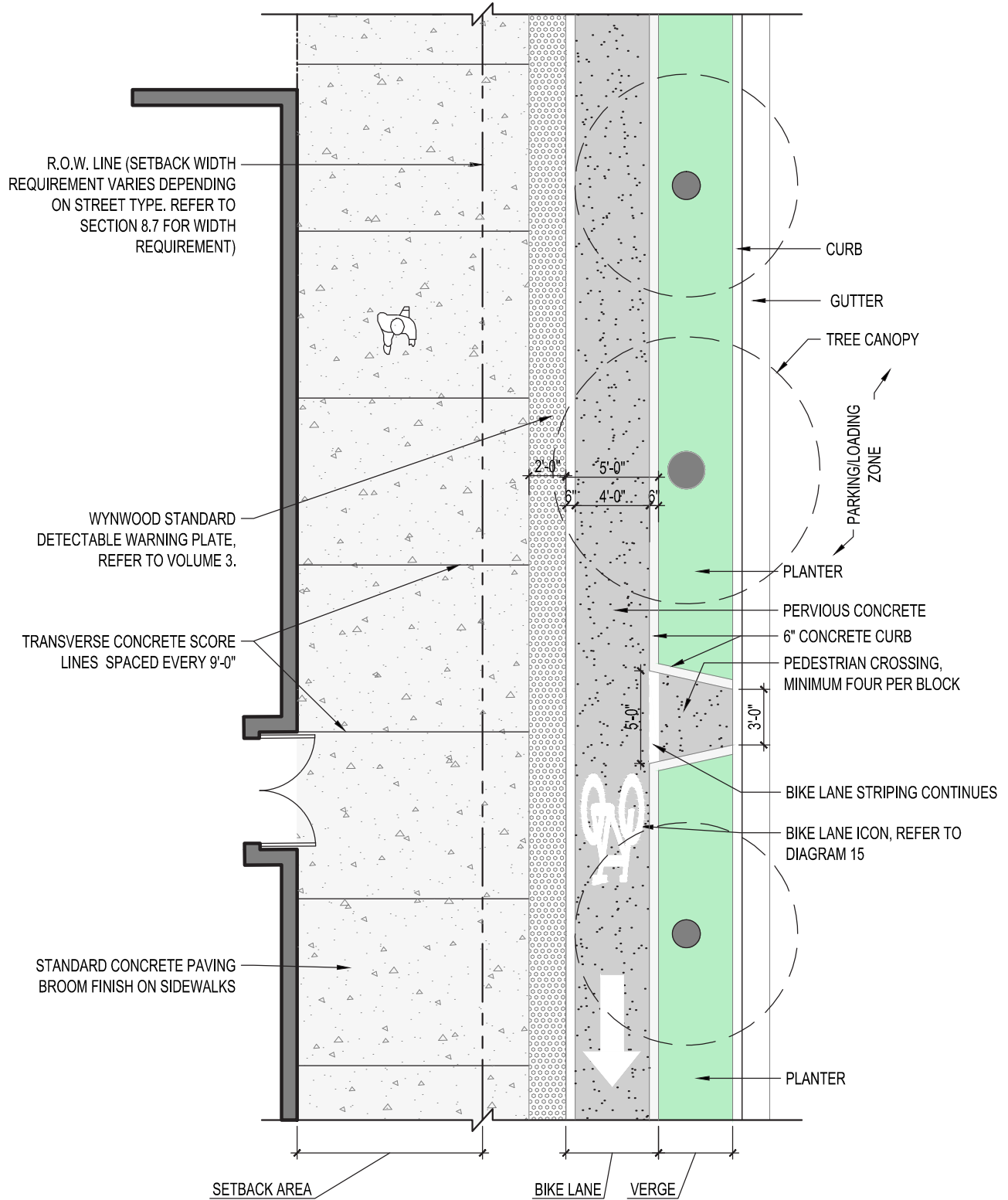
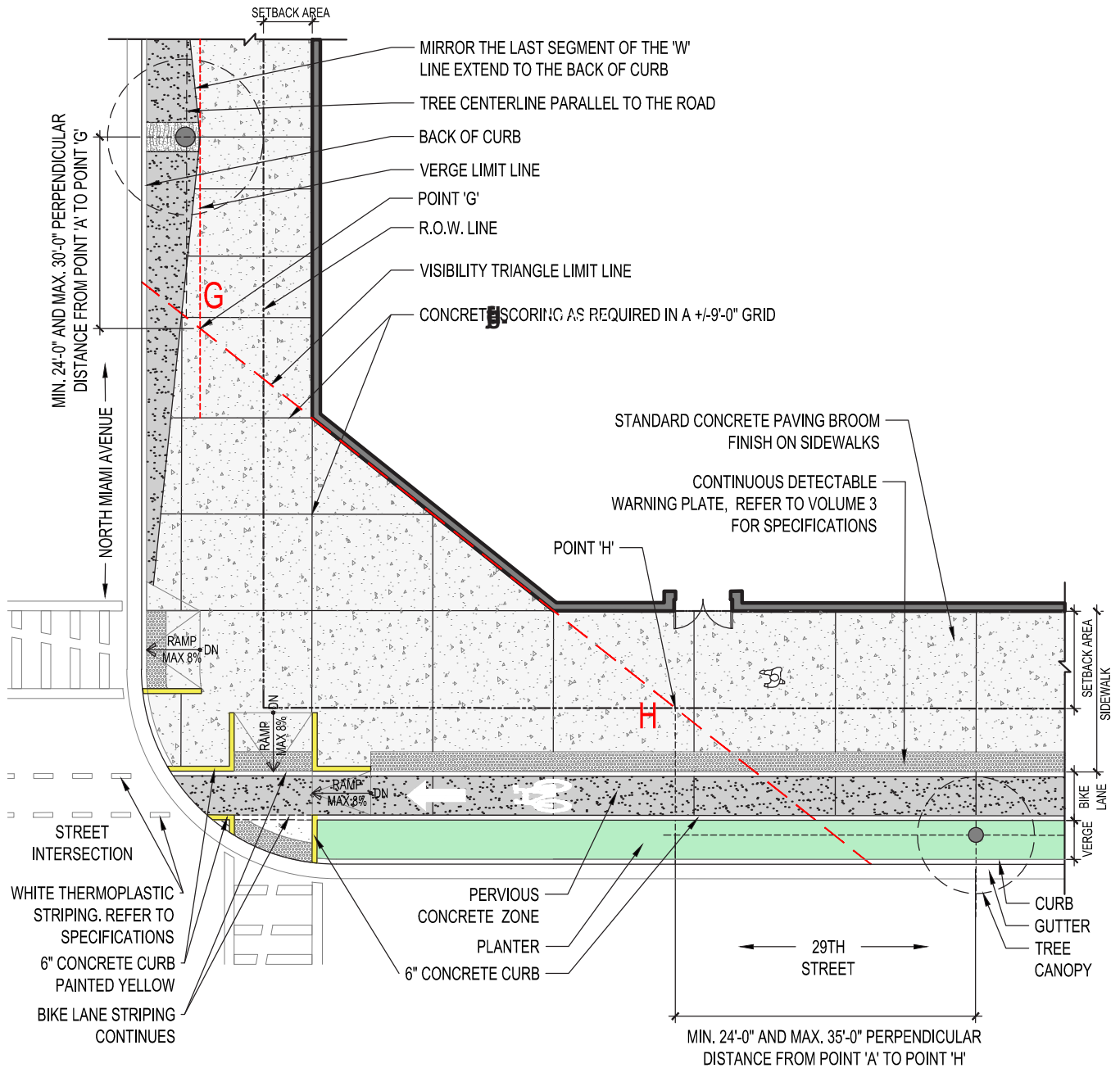


Diagram 30: STREET TYPE 9 CORNER CONDITION



POINT 'G': INTERSECTION OF VISIBILITY TRIANGLE LIMIT LINE AND VERGE LIMIT LINE
POINT 'H': INTERSECTION OF VISIBILITY TRIANGLE LIMIT LINE AND R.O.W. LINE

OCTOBER 2020

8.7.10 STREET TYPE 10

NW 5th Avenue between NW 29th Street and NW 22nd Street

- a. Use **Table 4:** Street Tree Category List 1, **Table 5:** Street Tree Category List 2 Planter Trees and **Table 9:** Shrubs and Groundcovers/Understory List.
- b. Trees in median shall be selected from **Table 5:** Street Tree Category List 2 Planter Trees and **Table 9:** Shrubs and Groundcovers/Understory List.
- c. Street Tree Bonded rubber mulch shall be gold color.
- d. The median may include Art Installations and Wayfinding Elements, subject to approval by the City of Miami and the Wynwood BID.
- e. Provide Bike Lane markings per **Diagram 22**.
- f. Follow **Diagram 31:** Street Type 10 Bike Lane Intersection for protected Bike Lane requirements.
- g. Bike Lane Barrier zone shall include Cycle Tracks , refer to **Diagram 31**. Spacing and installation shall be per manufacturer's specifications on Volume 3.
- h. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every three hundred (300) linear feet on both sides of the street.
 2. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every one-hundred and sixty (160) linear feet on both sides of the street.
 3. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed on the median when a pedestrian trail is provided. Spacing shall be approximately every one-hundred and sixty (160) linear feet on both sides of the street.
- i. Proposed street section geometry modifications shall require approval from Miami-Dade County Department of Transportation and Public Works. Additional modifications to proposed street section geometry may be required at schematic design and construction drawing phase.

OCTOBER 2020

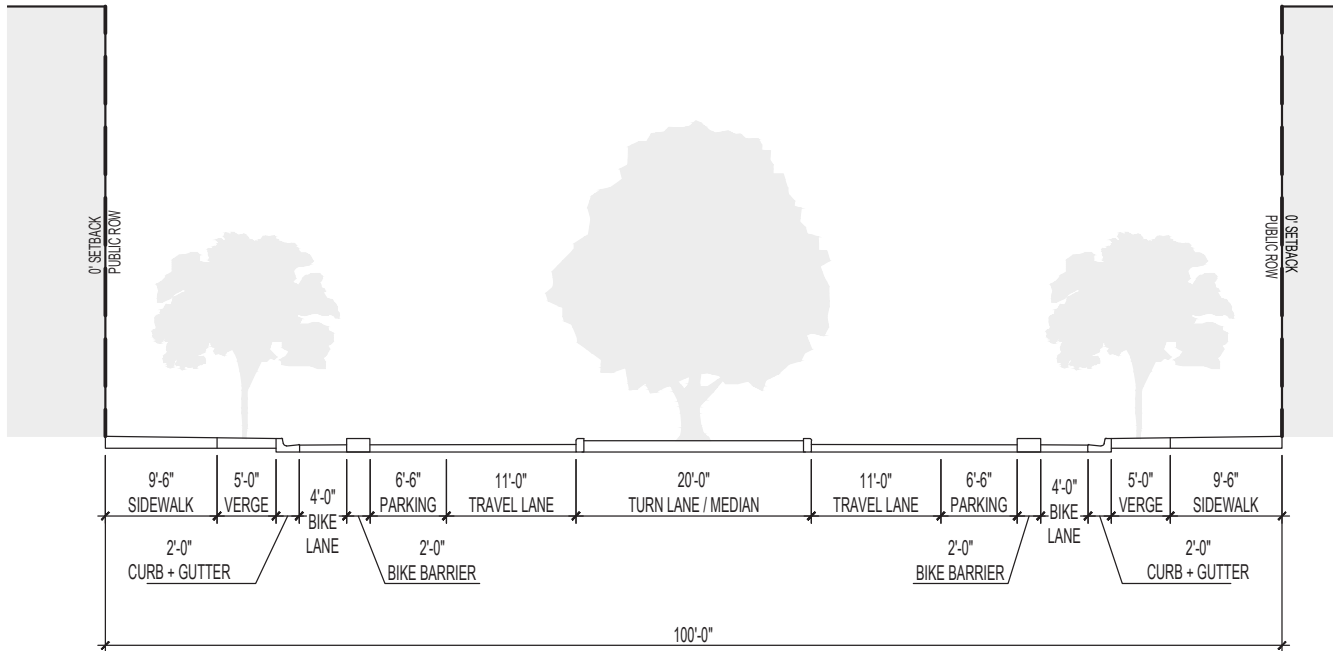
10

100' R.O.W. with bike lanes

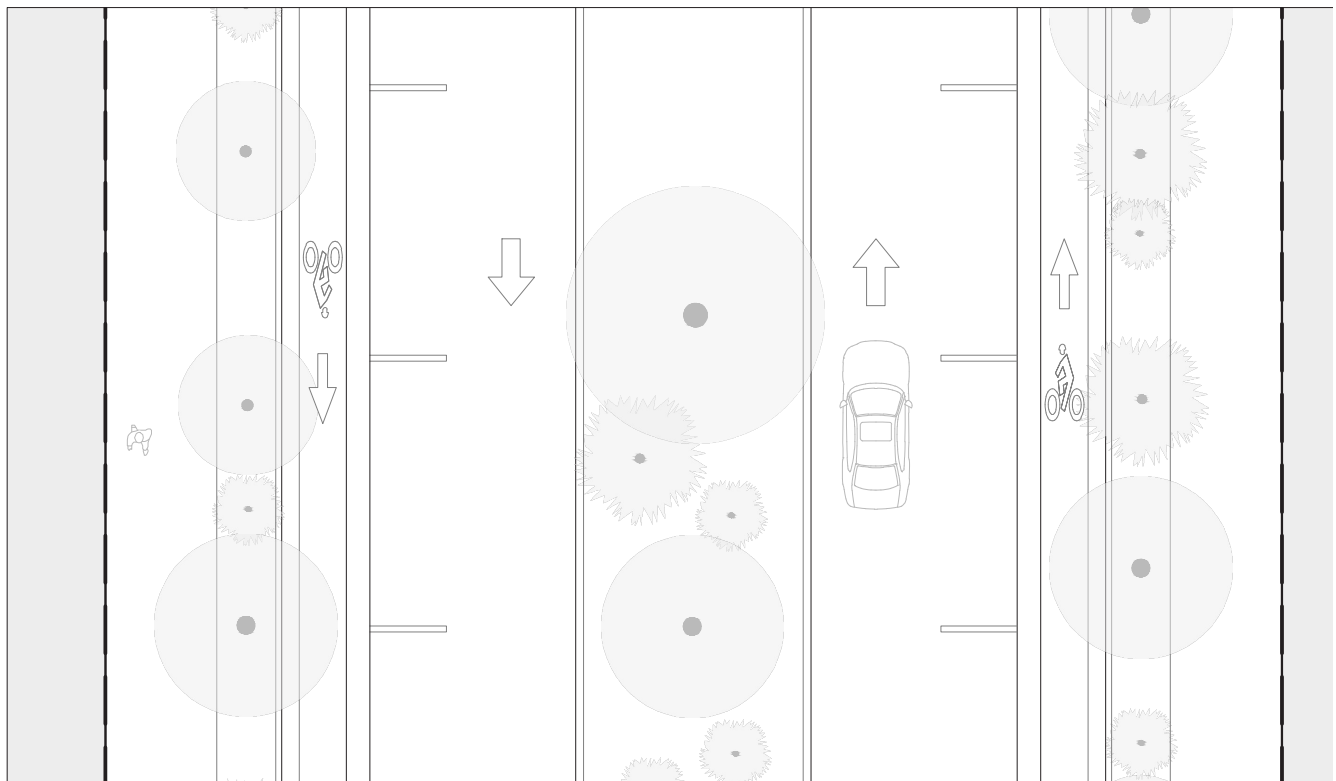
0' established setback

Affected thoroughfares: NW 5th Avenue between NW 29th Street and NW 22nd Street. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements.

TYPICAL SECTION



TYPICAL PLAN

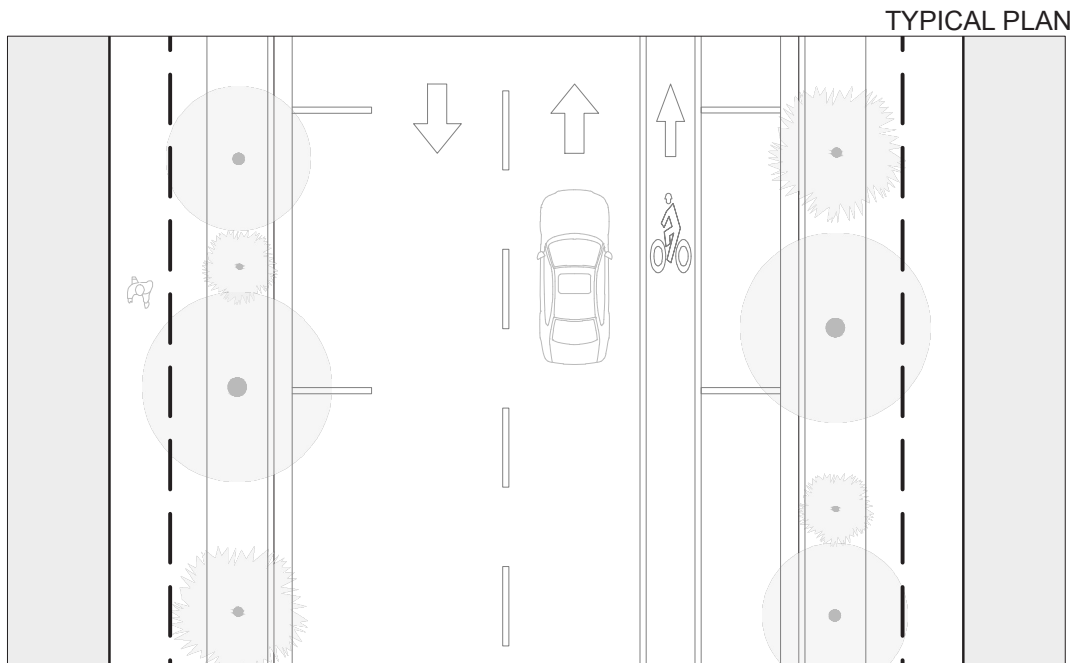
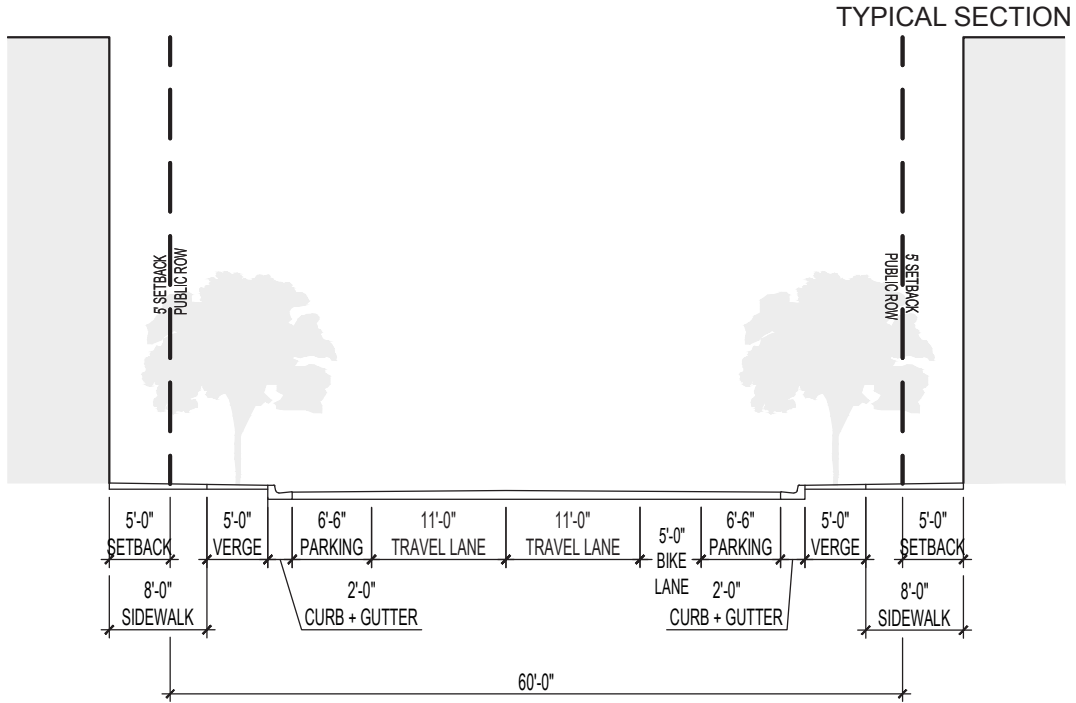


8.7.11 STREET TYPE 11

11

60' R.O.W. with bike lane
 5' established setback

Affected thoroughfares: NW 1st Avenue between NW 23rd Street and NW 20th Street; and NW 27th Street between North Miami Avenue and FEC Railway Corridor. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, **8.5** Hardscape Design and **8.6** Furnishing Elements for additional requirements. Use **Table 4: Street Tree Category List 1** and **Table 5: Street Tree Category List 2- Planter Trees**. Provide Bike Lane markings per **Diagram 22**.



8.7.12 STREET TYPE 12

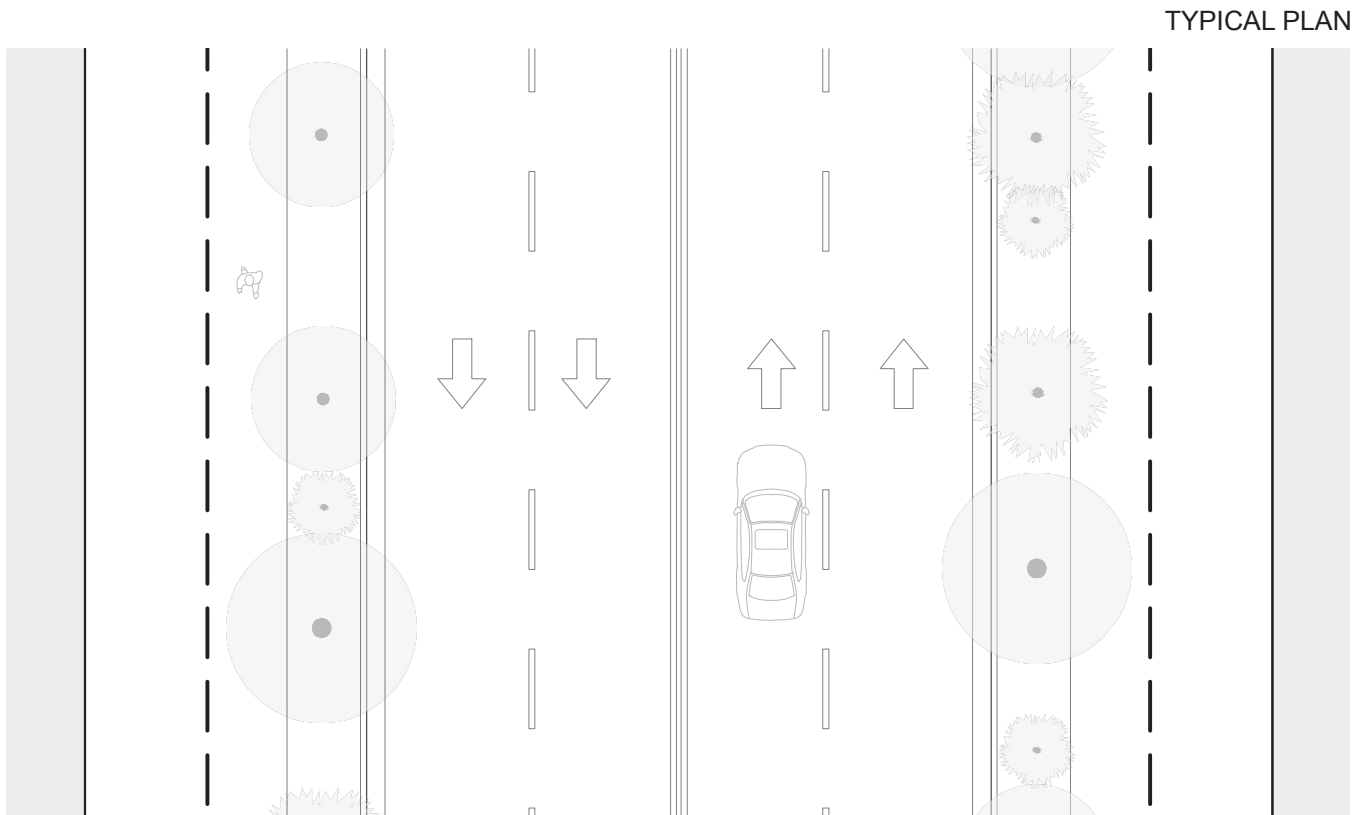
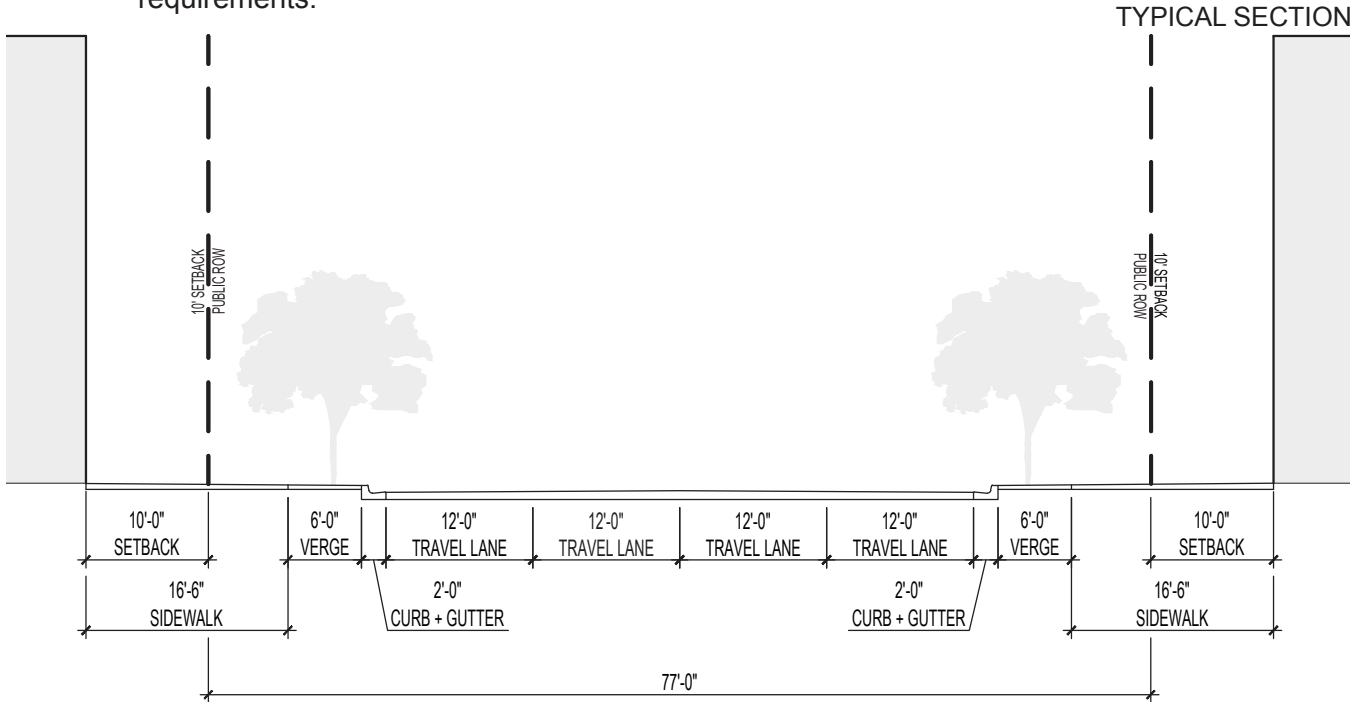
NW 20th Street between North Miami Avenue and the NW 1st Place

- a. Use **Table 4:** Street Tree Category List 1, **Table 5:** Street Tree Category List 2 Planter Trees and **Table 9:** Shrubs and Groundcovers/Understory List.
- b. Street Tree Bonded rubber mulch shall be Gold color.
- c. Provide Sharrow Lane markings per **Diagram 21**.
- d. Lighting shall be provided throughout the R.O.W. to meet an average of 1.5 Foot-candles on the roadways and minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 1 Roadway Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every one-hundred and sixty (160) linear feet on both sides of the street. Alternating with the Pedestrian Light Posts.
 2. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the verge zone. Spacing shall be approximately every one-hundred and sixty (160) linear feet on both sides of the street. Alternating with the Type 1 Roadway Light Posts.

12

Northwest 20th Street
10' established setback

Affected thoroughfares: NW 20th Street between NW 1st Place and the FEC Railway Corridor. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4 Landscape Elements**, **8.5 Hardscape Design** and **8.6 Furnishing Elements** for additional requirements.



OCTOBER 2020

8.7.13 STREET TYPE 13

West side of the FEC Railway Corridor between NW 29th Street and NW 20nd Street

Proposed Edge Park, continuous passageway that revitalizes and activates the district boundary with amenities, Art Installations, and extensive landscape to improve public wellness, connect with nature and neighboring communities.

- a. Vegetation for the Landscape Zone and the Dense Landscape Buffer next to I-95 shall be selected from **Table 4: Street Tree Category List 1**, **Table 5: Street Tree Category List 2** Planter Trees, and **Table 6: Shrubs and Groundcovers/Understory List**.
- b. Art installations and Wayfinding Elements are permitted, subject to approval by the City of Miami and the Wynwood BID.
- c. Lighting shall be provided throughout the R.O.W. to meet a minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the two (2) feet of the bicycle/pedestrian path. Spacing shall be approximately every one-hundred and sixty (160) linear feet on alternating sides of the bike/pedestrian path.

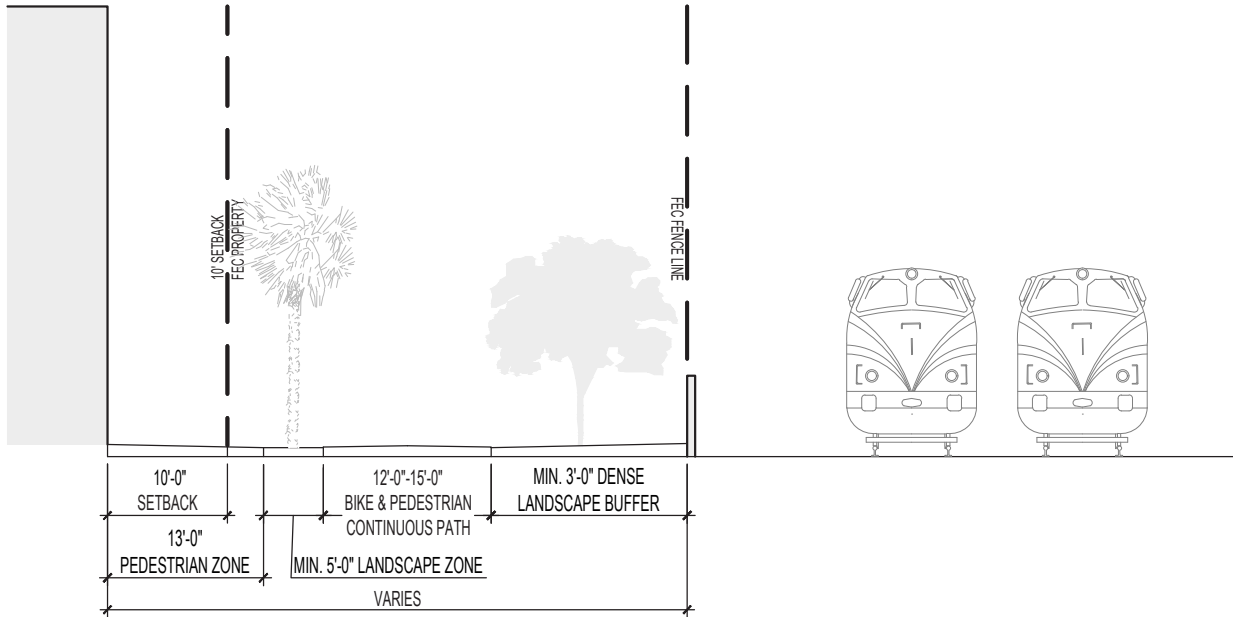
13

FEC Railway Corridor EDGE PARK

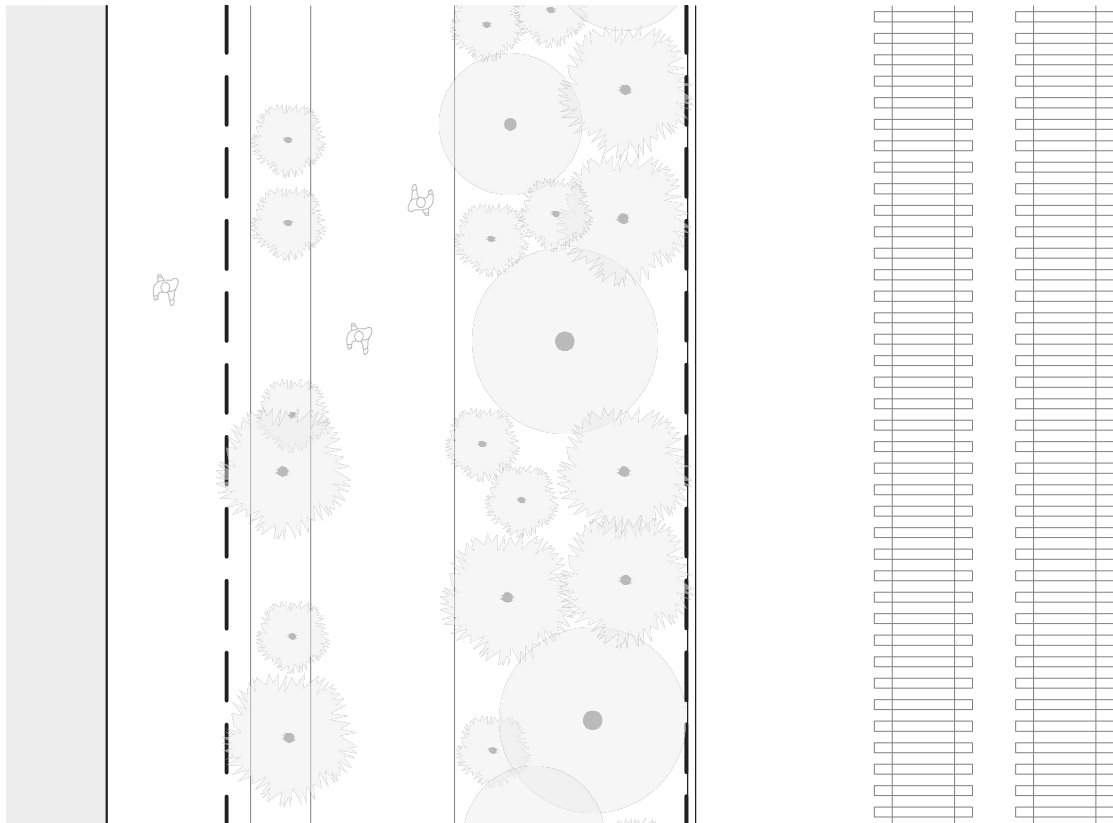
10' established setback

Affected thoroughfares: FEC Railway Corridor between NW 29th Street and NW 20th Street.
For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4**
Landscape Elements. Bike & Pedestrian Path Shall be coordinated with the FEC.

TYPICAL SECTION



TYPICAL PLAN



8.7.14 STREET TYPE 14

NW 27th Terrace between NW 3rd Avenue and NW 2nd Avenue.

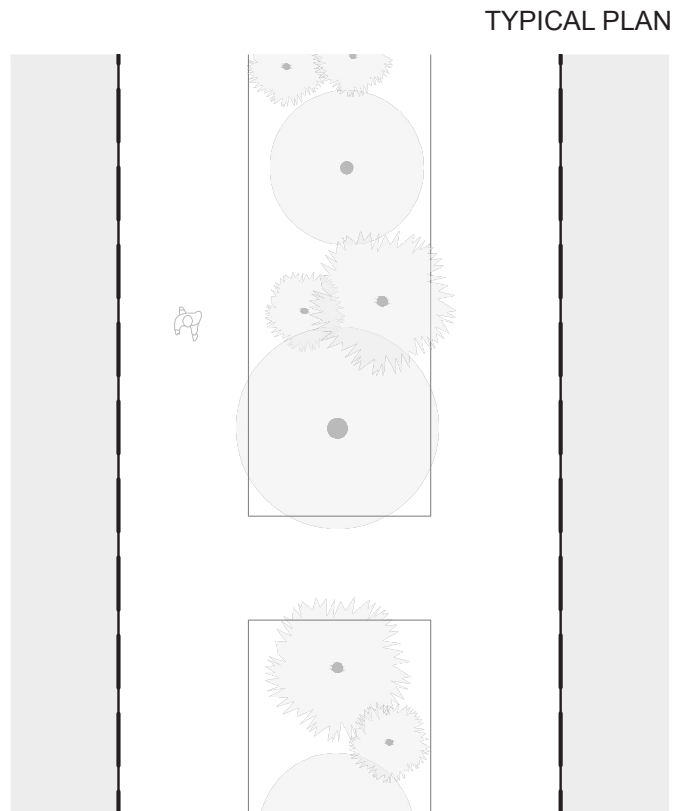
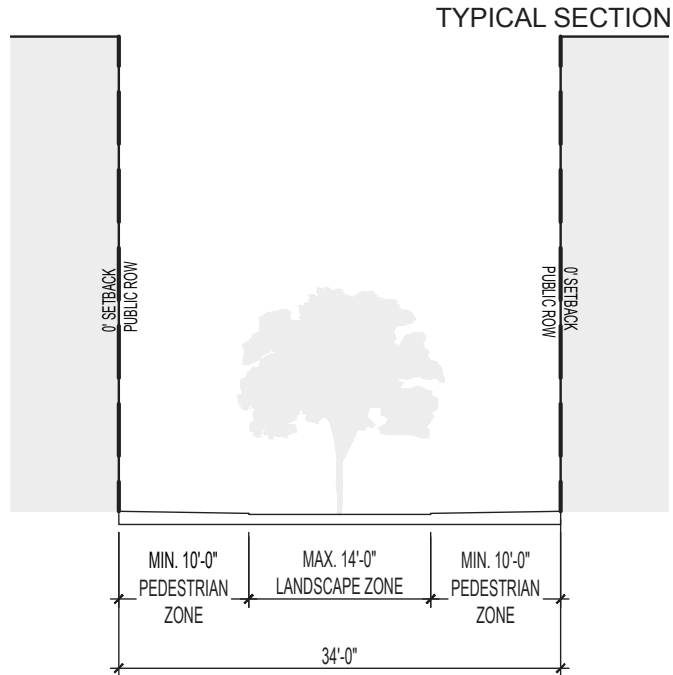
- a. Pedestrian and Bicycle only R.O.W., no vehicular access.
- b. Landscape Zone Requirements:
 1. A minimum of one Planter is required per frontage.
 - i. The length of the Planter(s) shall be at least thirty (30) percent of the frontage length and occupy the full width of the Landscape Zone.
 - ii. Portions of the Open planter(s) exceeding thirty (30) percent of the frontage length may vary in width from five (5) feet to the full width of the Landscape Zone.
 2. Landscape material shall be selected from **Table 4: Street Tree Category List 1**, **Table 5: Street Tree Category List 2 Planter Trees** and **Table 9: Shrubs and Groundcovers/Understory List**.
 3. Shall include drainage and Wynwood Furnishing Elements **8.6**.
 4. May include art installations and Wayfinding Elements, subject to approval by the City of Miami upon recommendation by the Wynwood BID.
- c. Hardscape must be approved by City of Miami upon recommendation of the Wynwood BID.
- d. Lighting shall be provided throughout the R.O.W. to meet a minimum 1.0 Foot-candles at pedestrian/sidewalk areas.
 1. Wynwood Standard Type 2 (Linea) Pedestrian Post and Fixture shall be installed within the Landscape zone. Spacing shall be approximately every one-hundred and sixty (160) linear feet on alternating sides of the bike/pedestrian path.
 2. If overall implementation is pursued, an alternate pedestrian light post that meets the required foot-candles may be proposed by the developer, reviewed and approved by the City of Miami Director of Department of Resilience and Public Works, upon recommendation by the Wynwood BID.

14

<50' R.O.W.

0' proposed setback

Affected thoroughfares: NW 27th Terrace between NW 3rd Avenue and NW 2nd Avenue. For specific application, reference Street Type **Illustration 8.3**. Refer to **Section 8.4** Landscape Elements, for additional requirements. Design to be coordinated with property owner.

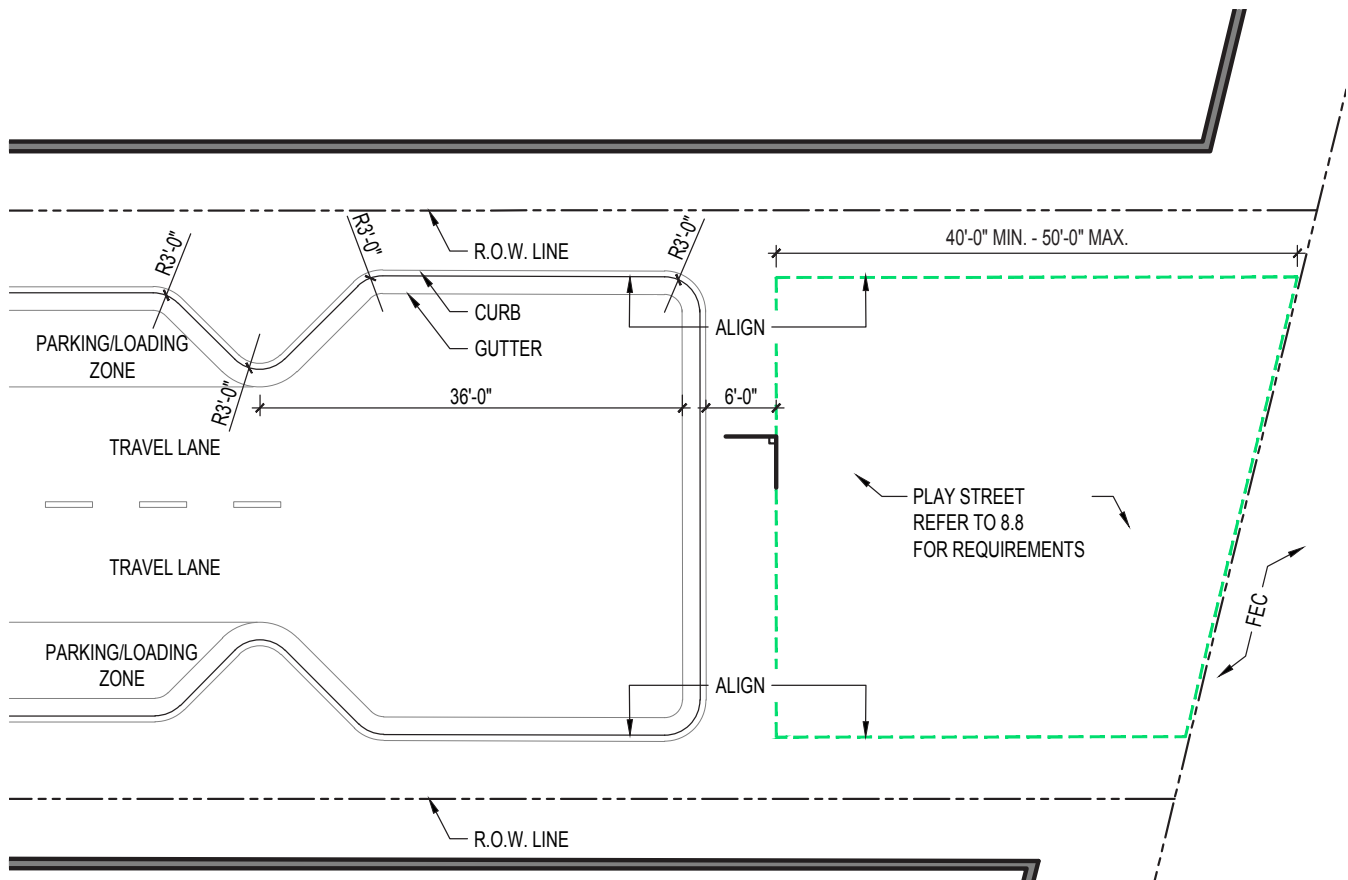


8.8 PLAY STREET

Park areas with additional landscape that provide pedestrians and cyclists a transition from the R.O.W. to the FEC Railway Corridor Edge Park. Play Streets are at the easternmost boundary of NW 28th Street, NW 26th Street, NW 25th Street, NW 24th Street and NW 22nd Street.

- a. Refer to **Diagram 30: Wynwood Play Street**
- b. A fifteen (15) feet wide path that connects the driving lane with the FEC Railway Corridor twelve (12) to fifteen (15) feet path shall be provided.
- c. Play Street area shall have a minimum of fifty (50) percent canopy coverage.
- d. Plant material shall be selected from **Table 4: Street Tree Category List 1**, **Table 5: Street Tree Category List 2 Planter Trees** and **Table 9: Shrubs and Groundcover/ Understory List**.
- e. Wynwood Standard Urban Furnishings, Art Installations and Wayfinding Elements are permitted, subject to approval by the City of Miami and the Wynwood BID.
- f. Pedestrian Lighting shall be provided to meet a minimum 1.0 Foot-candles.

Diagram 32: WYNWOOD PLAY STREET



OCTOBER 2020

8.9 MAINTENANCE STANDARDS

All streetscape hardscape and landscaping approved through the Wynwood Streetscape criteria must have a maintenance plan (created by the property owner) that specifies the hardscape surface cleaning, bioswale cleaning, pruning, irrigation, mulch, fertilization, pest management, inspections, and plant replacement requirements for the property. The plan must contain a description of any variation or deviation from the Maintenance Standards for the Wynwood Streetscape Guidelines. Landscape Maintenance Plan – Sample Form in **Volume 3**.

8.9.1 Wynwood Landscape Maintenance: Tree Type Specific Criteria

- a. **Table 4:** Street Tree Category List 1, 'Urban Wild'- landscaping is intended to showcase primarily native species growing in a semi-natural form, highlighting how this urban area remains a vital part of the natural environment. Plant species utilized should require minimal irrigation and fertilization, in order to minimize use of water and pollution of stormwater runoff.
 1. Trees should be allowed to grow in their natural form without being shaped to limit their growth except to prevent conflicts with infrastructure or to accommodate view/clearance zones specifically identified in the Landscape Maintenance Standards.
 2. Groundcover plants should be maintained within distinct planting beds, but do not require separation from adjacent beds.
 3. Shrubs should be pruned to establish dense, full forms, and should not be manicured to produce square corners or flat sides.

- b. **Table 5:** Street Tree Category List 2 Planter Trees 'Weird, Whimsical and Colorful' - landscaping is intended to showcase species with prominent and brightly colored flowers, unique forms, and features to compliment the vibrant colors of Wynwood, as a reflection of the unique and unconventional character of the art and style that is the hallmark of the District.
 1. Trees should be allowed to grow in general accordance with their natural form while promoting production and visibility of their fruits and flowers.
 2. Adequate planting space must be provided for these trees (per guidelines), since many have large growth forms, fruit, and other growth habits that are not typically conducive for urban environments.
 3. Groundcover plants should be maintained within distinct planting beds, but do not require separation from adjacent beds.
 4. Shrubs should be pruned to establish dense, full forms, and should not be manicured to produce square corners or flat sides.

8.9.2 Landscape Maintenance Standards

This section provides guidance for conducting specific landscape maintenance activities within the Wynwood District. These specifications provide a general baseline of standards, they do not cover all potential aspects of maintenance or each individual scenario. Refer to the standards defined below and the **Diagram 33: Landscape Maintenance Diagram**.

The standards are designed to establish measurable benchmarks to ensure sound industry practices are followed, environmental conservation principals are met, and a consistent aesthetic quality is achieved. Trim and prune all trees in accordance with ANSI A300 Standards and Best Management Practices (BMP).

a. Infrastructure Clearance

1. Prune all vegetation to provide five (5) feet of clearance around all signs, lights, and post; for roadway signs, remove any obstructions along the required line of site.
2. Remove all vegetation within a five (5) feet of the light posts and any tree branches under the light fixture at any distance.
3. Trim all shrubs and groundcover such that their overlap does not exceed six (6) inches into designated pedestrian and vehicular paved areas.
4. Prune all vegetation to provide a minimum of five (5) feet of clearance of walls and structures (horizontal and vertical clearance).

b. Tree Pruning

1. Cut back to lateral branches (no stub cuts); cut at branch bark collar (no flush cuts).
2. No more than twenty-five (25) percent of the living canopy may be removed by trimming in any twelve (12) month period
3. Priorities for trimming:
 - i. Remove all dead wood.
 - ii. Remove damaged/diseased branches that pose a risk of failure (falling).
 - iii. Remove branches to provide clearance for cars, pedestrians, and infrastructure.
 - iv. Prune for aesthetic improvement (including to establish/improve views).
 - v. Prune to improve structure (correcting co-dominant branching, included bark, etc.).
4. Young trees should be trimmed to develop good structure: single central leader, scaffold branches, and form.

c. Palm Pruning

1. Pruning should occur three (3) times per year and be limited to fronds that are more than fifty (50) percent dead and those below the ninety (90) degree plane (parallel to the ground). Yellowing fronds should not be removed if they occur above the ninety (90) degree plane.

2. Palm fronds must be removed or tied back when they interfere with pedestrian or vehicular passage. Palms with twenty-five (25) percent or more of their living fronds, above ninety (90) degree plane that interfere with vehicular/pedestrian passage should have fronds tied back with natural fiber (twine) to prevent pencil-necking and reduction of health from excessive frond removal.
- d. Specialty Pruning
1. Trees in Open Planters or areas in front of art murals may be pruned with non-standard specifications to achieve a specific form or maintain a view of the mural.
 2. Specialty pruning must be proposed in the Maintenance Plan for the property and approved by the City of Miami prior to implementation.
 3. Specialty pruning is not appropriate for maintaining views of signs, advertisements or building frontage without art murals.
- e. Shrubs
1. Shrubs are to be pruned to a rounded form, widest at the base. No square pruning/corners are permitted. Natural forms are preferred.
 2. Shrubs are to be pruned six (6) months after planting, and thereafter to allow a maximum of six (6) inches of growth in any direction on any stem without branching. The goal is to maintain full forms.
- f. Mulch
1. All landscape beds with complete vegetative cover are to receive mulch to cover bare ground.
 2. Where used, mulch shall be applied in a three (3) inch thick layer
 3. Annually, mulch shall be inspected; partially/fully decomposed mulch removed, and new mulch applied.
 4. Mulch is to be Melaleuca mulch or shredded hardwood. No Cypress mulch, no coloring added.
 5. New tree and shrub plantings should receive a three (3) inch layer of mulch over rootballs.
- g. Fertilization
1. All landscape beds may be fertilized, though fertilization is not required unless vegetation displays signs of nutrient deficiency.
 2. All landscape beds to receive the same fertilizer type: "palm special" fertilizer with 8-2-12+4 (N-P-K-M) content, unless a landscape professional specifies an alternate type based on site/plant specific needs and provides notification of the substitution to the Environmental Resources Division.
 3. Fertilizer must be non-soluble (slow release).
 4. Fertilizer must be broadcast spread over the soil surface, do not allow granules to remain on leaf surfaces.

5. Application rate is point three (0.3) pounds per one hundred (100) square feet of landscape bed, per application event.
 6. Fertilizer is to be applied at a maximum interval of three (3) times per year to any landscape bed.
 7. Mulch application is to follow ANSI A300 Standards and BMP.
 8. Applicator/on-site supervisor must have FDACS Commercial Fertilizer Applicator's License.
 9. Do not apply fertilizer when local weather reports a fifty (50) percent or more chance of rain of half ($\frac{1}{2}$) inch or more within twenty-four (24) hours.
- h. Bioswales (Wynwood Parking Lane Planters 1, 2 and 3) require routine maintenance to uphold the desired performance and aesthetic quality as well as ensure performance throughout its expected lifetime.
1. City of Miami Public Works Department shall inspect and monitor maintenance.
 2. Refer to **Volume 3** for Bioswale, Green Infrastructure Maintenance Requirements.

8.9.3 Hardscape Maintenance Standards

Pervious Concrete requires adequate maintenance to uphold the desired performance.

- a. Routine maintenance with a pure vacuum and blower shall be performed on pervious concrete surfaces two (2) times a year. The Wynwood BID shall inspect and monitor maintenance.
- b. Deep Cleaning with a high-pressure nozzle vacuum truck shall be performed one (1) time every five (5) years. Wynwood BID shall inspect and monitor maintenance.
- c. Refer to **Volume 3** for specifications and maintenance requirements from The National Ready Mixed Concrete Association.

OCTOBER 2020

Diagram 33: LANDSCAPE MAINTENANCE DIAGRAM

