

# McLean UDG Advisory Group Meeting #6

July 2022



PLANNING & DEVELOPMENT



# Agenda

- Park Network Plan Update
- Signature Open Space Discussion
- Sidewalk Paving Design Studies
- September Meeting Topics

# Sidewalk Pavement

- Neighborhood Village Character
- Sidewalk Paving Design Options
- Construction Details
- Paving Material Selection

# Neighborhood Village Character

- Organic Development pattern and historical context
- Streetscape should feel intentionally designed for pedestrians
- Human scaled details
- Warm tones and natural materials
- Variety is encouraged while common theme is maintained

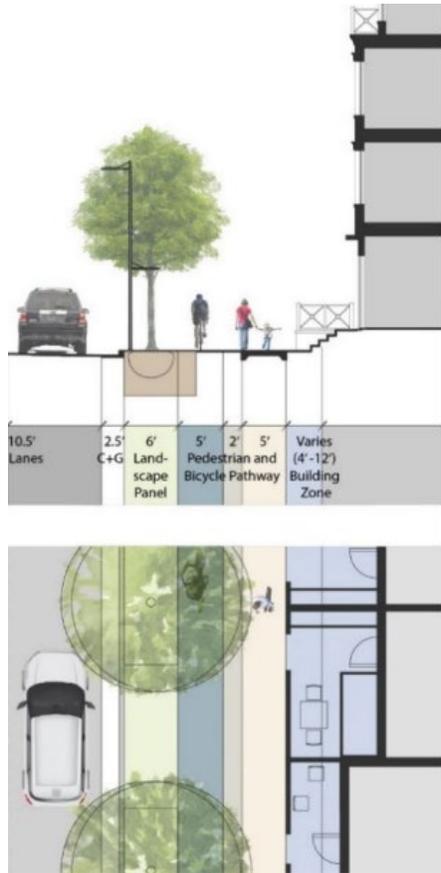


Chain Bridge & Old Dominion Rd 1968

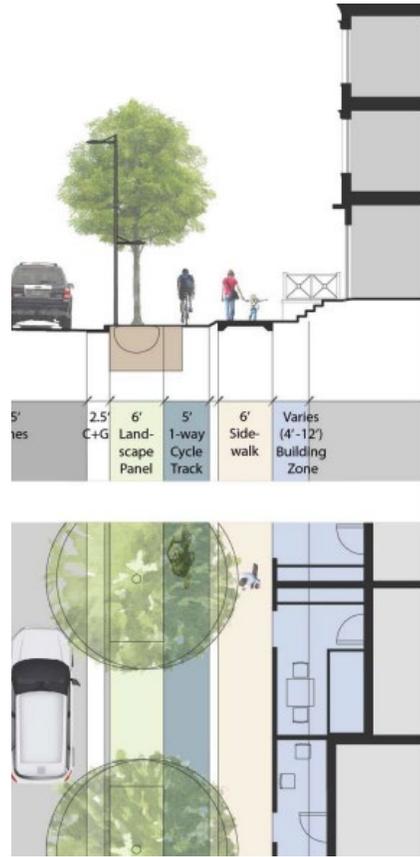


The Signet

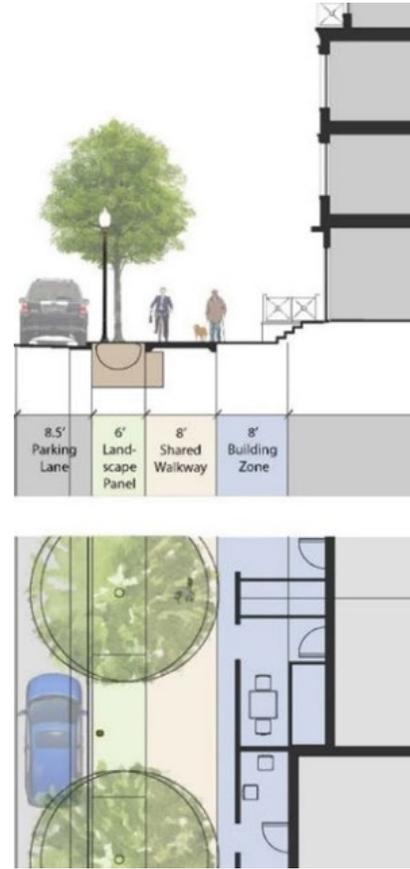
# Street Types in Discussion



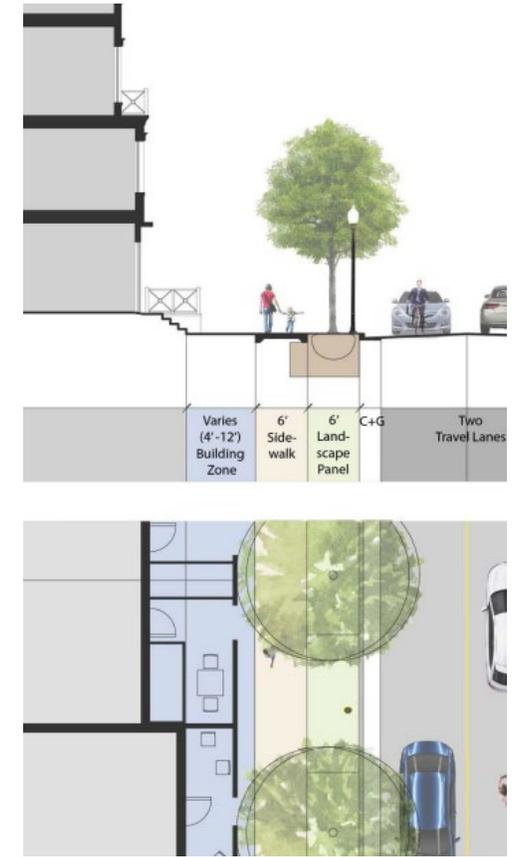
Avenue 1:  
Old Dominion Dr



Avenue 2:  
Chain Bridge Rd



Local Street 1:  
Beverly and Elm



Local Street 2:  
Other Local  
Streets

# Sidewalk Paving Design Options

Option 1: Brick Panels



Street near Signet Park, McLean

Option 2: Brick Amenity Zone + Concrete Travel Zone



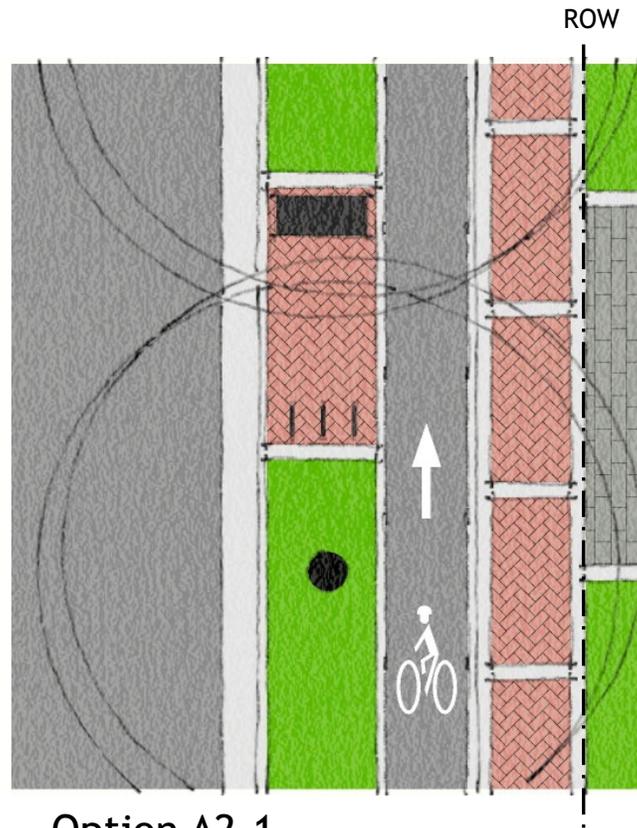
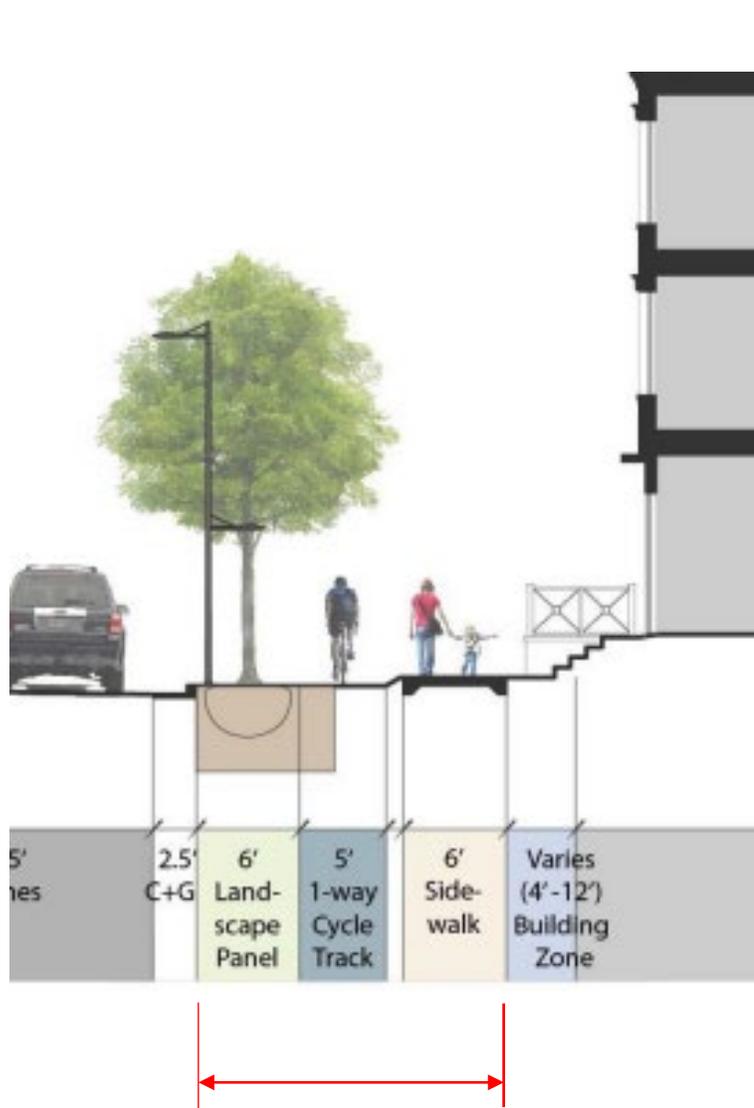
Arlington, Virginia

# Current Brick / Paver Sidewalk Location



- Brick Panel Sidewalk
- - - Other Style Brick or Concrete Paver SW
- Center Zone
- - - General Zone
- - - McLean CBC Boundary

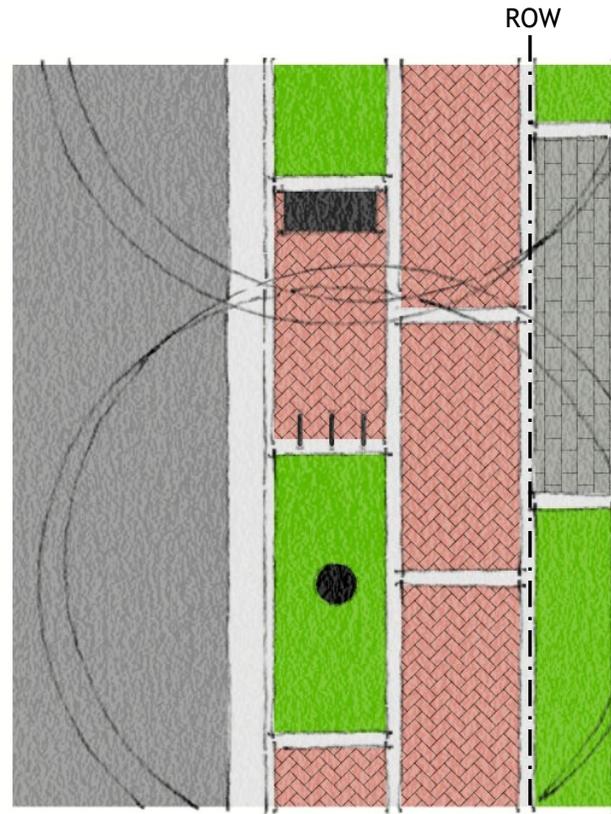
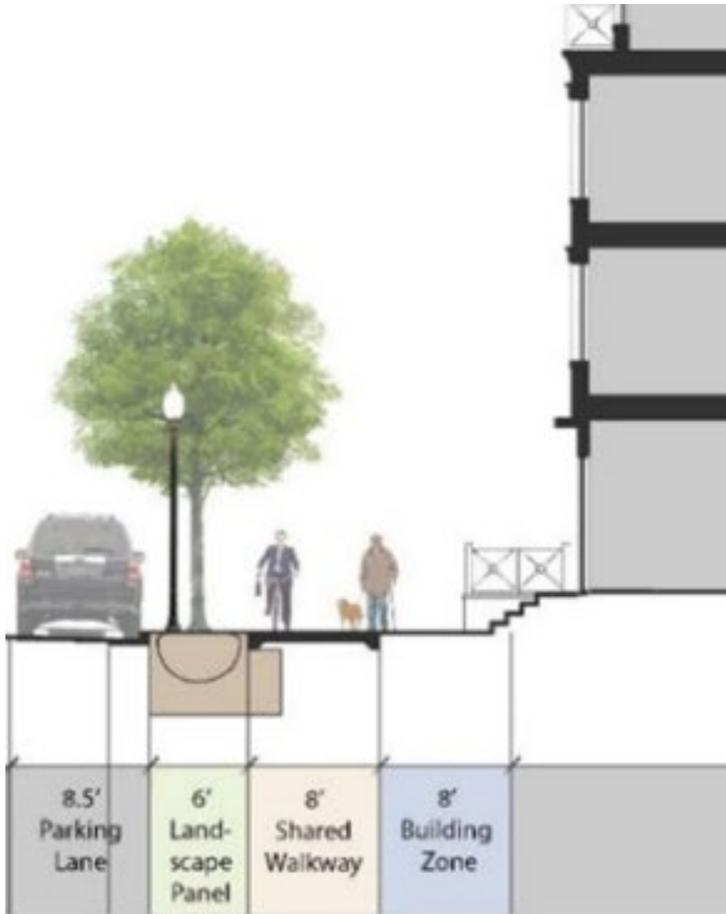
# Avenue Type 2: Chain Bridge Road



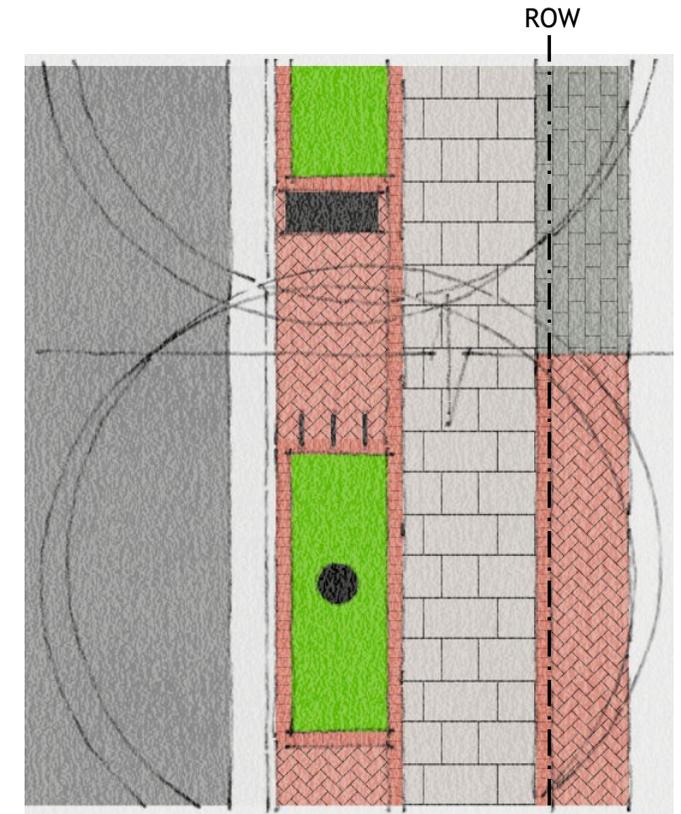
## Option A2-1

- Bike track: dark stained concrete w/ saw cut joint, or asphalt with 6" concrete edging
- Walkway: brick panels;
- VDOT 6" mountable curb in between;
- Amenity zone: Planting strips
- Building zone: Brick panels or concrete or stone

# Local Street Type 1: Beverly and Elm Street

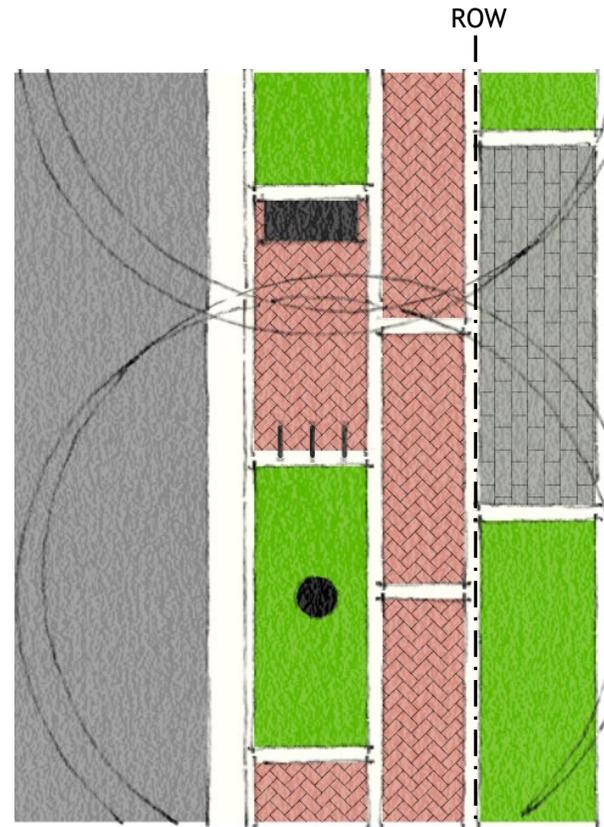
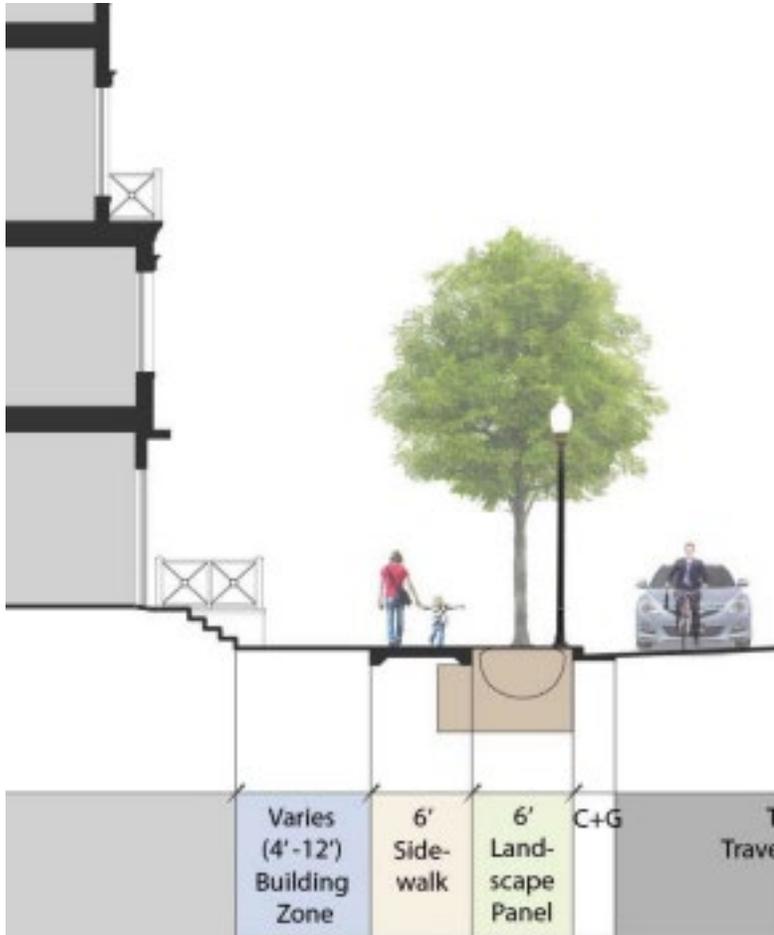


**Option LS1-1**  
 Shared walkway: brick panels,  
 Amenity zone: Linear planters, brick  
 panels;  
 Concrete band edging  
 Building zone: brick panels or concrete  
 or stone

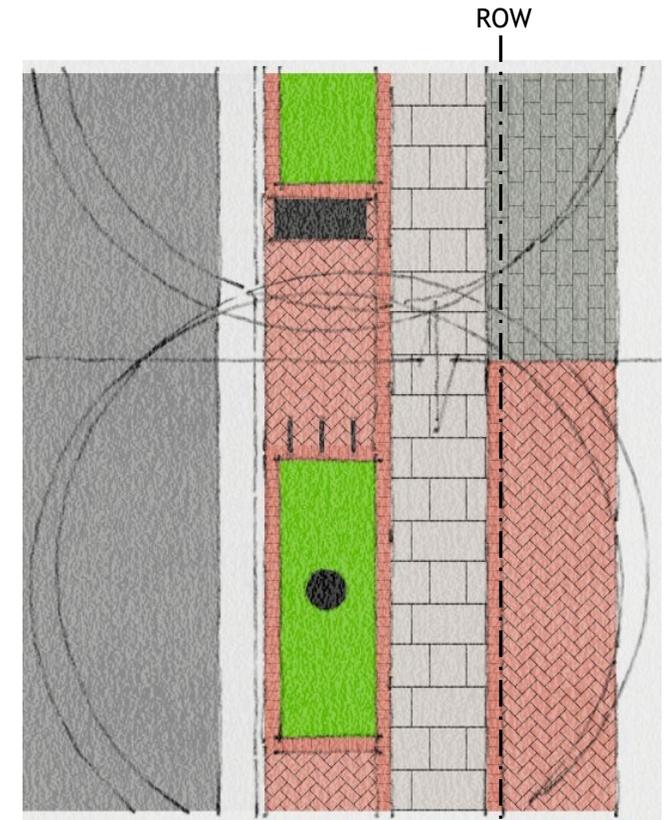


**Option LS1-2**  
 Shared walkway: patterned  
 concrete,  
 Amenity zone: Linear planters,  
 brick, Soldier course edging;  
 Building zone: brick or  
 concrete or stone

# Local Street Type 2

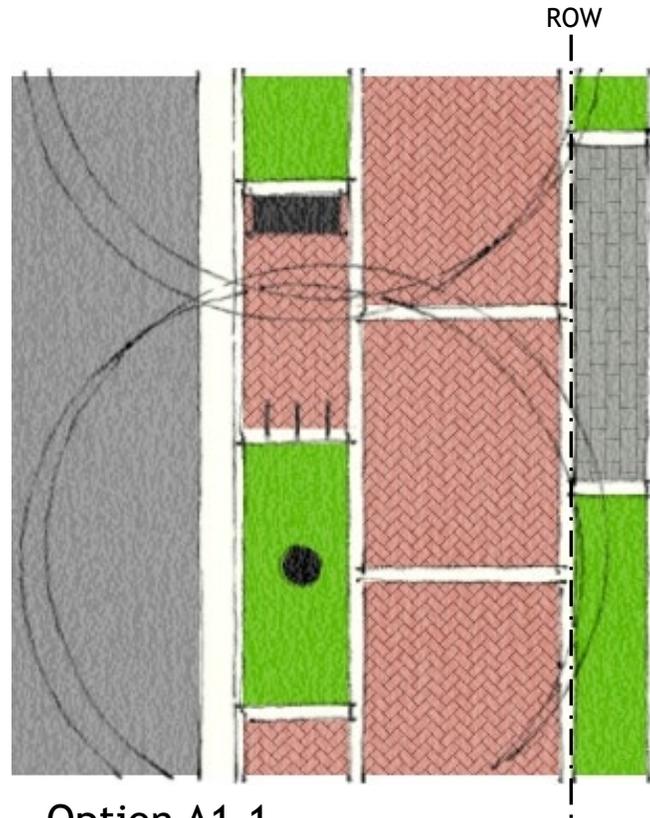


**Option LS2-1**  
 Shared walkway: brick panels,  
 Amenity zone: Linear planters, brick panels;  
 Concrete band edging  
 Building zone: brick panels or concrete or stone

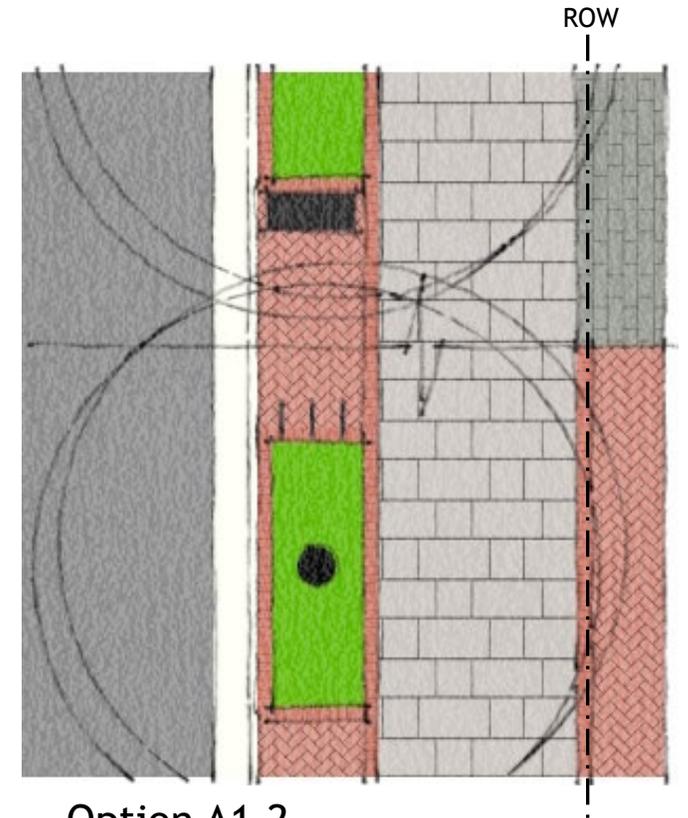


**Option LS2-2**  
 Shared walkway: patterned concrete,  
 Amenity zone: Linear planters, brick, Soldier course edging;  
 Building zone: brick or concrete or stone

# Avenue Type 1: Old Dominion Drive



Option A1-1  
 Bike ped shared use path: brick panels,  
 Amenity zone: Linear planters, brick panels;  
 Concrete band edging  
 Building zone: stone or concrete



Option A1-2  
 Bike ped shared use path: patterned concrete,  
 Amenity zone: Linear planters, brick, Soldier course edging;  
 Building zone: brick or concrete or stone

# Urban Shared Use Path

- No delineation between walkway and bike track
- Cyclists yield to pedestrians
- Paving material designed to reduce speed



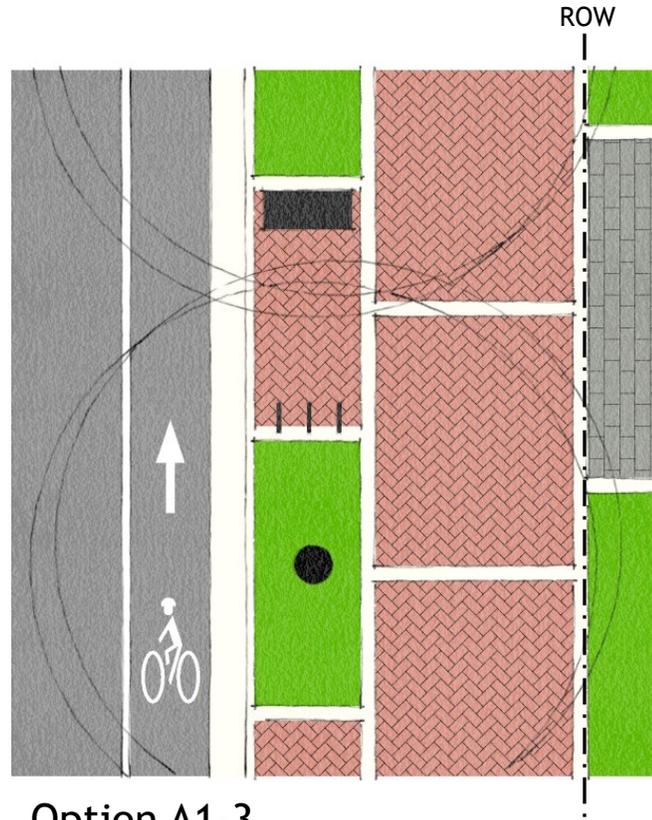
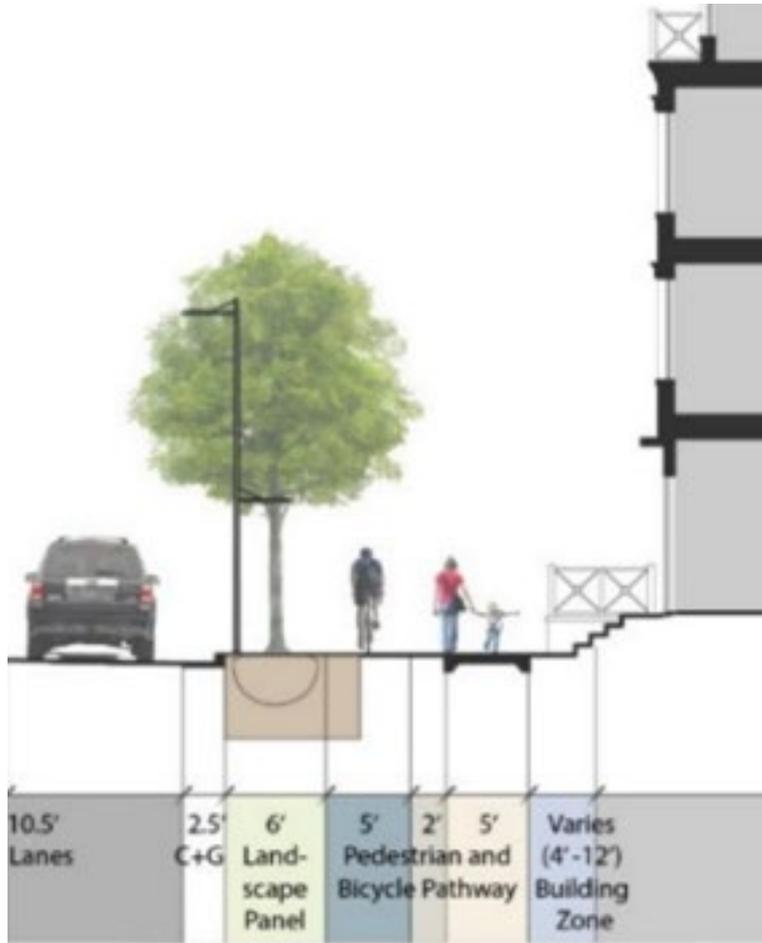
# Shared Space Concept

- Remove traffic signals, signs, street curbs, lane striping etc.
- Pave street surface the same way as pedestrian space
- Vehicles yield to pedestrians
- Drivers tend to pay more attention to pedestrians and cyclists absent of traffic control measures

Exhibition Street, London  
Before and After



# Avenue Type 1: Old Dominion Drive (with Demonstration Project)



Option A1-3

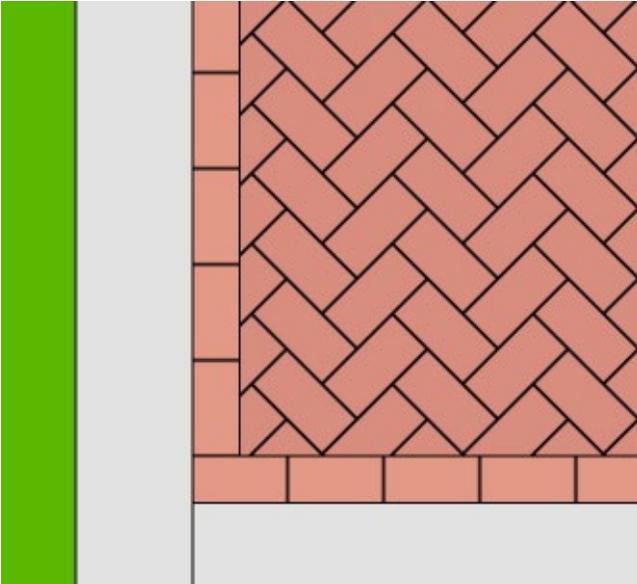
Bike lane on road

Shared use path: brick panels,  
Amenity zone: Linear planters, brick panels;

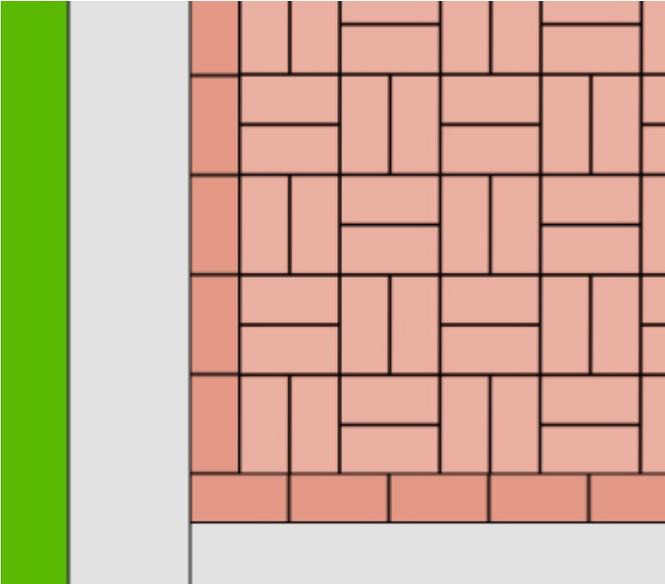
Concrete band edging

Building zone: stone or concrete

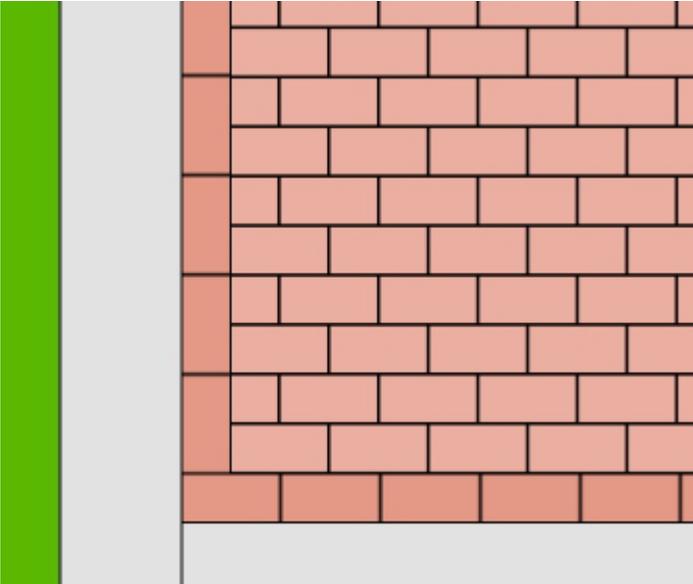
# Sidewalk Paving Design Details



Herringbone with running bond edging



Basketweave with running bond edging



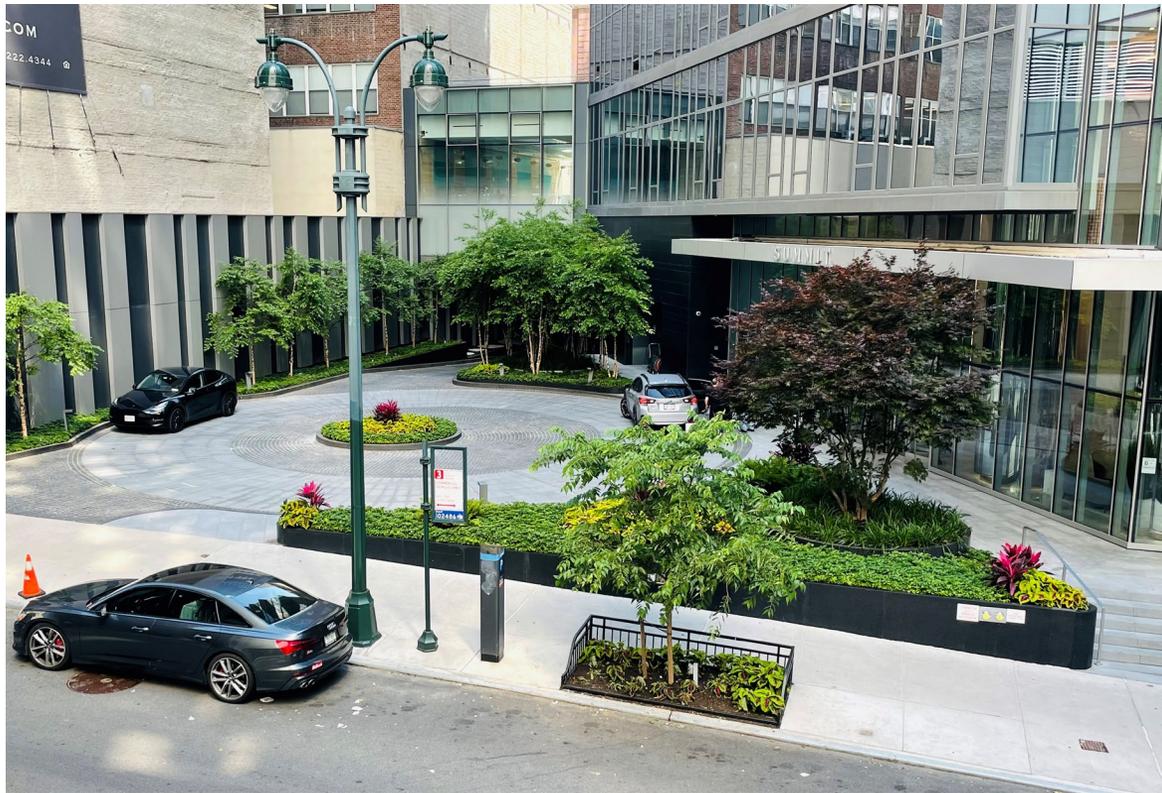
Running bond with edging

# Handicap Ramp Paving



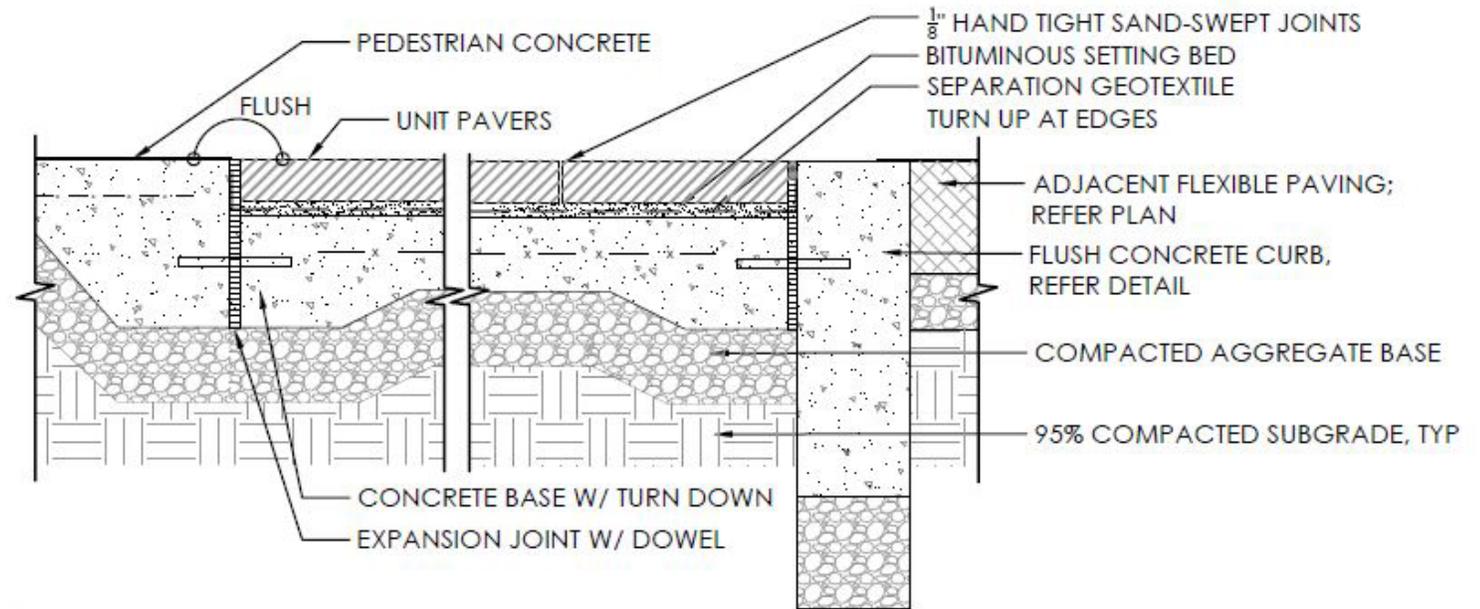
# Vehicular Drop-off and Teaser Parking

Well designed front door drop-off or teaser parking feels like part of the pedestrian realm



# Construction Details

- Full depth (4") pedestrian concrete beneath the brick pavers
- The base concrete also is doweled at expansion joints to reduce them moving in opposite directions in the future. Also doweled at driveways.
- Concrete flush or raised curbs as edge restraints with the concrete curbs doweled into the concrete base of the pavers
- Preference for hand tight joints instead of mortared joints.



## NOTES:

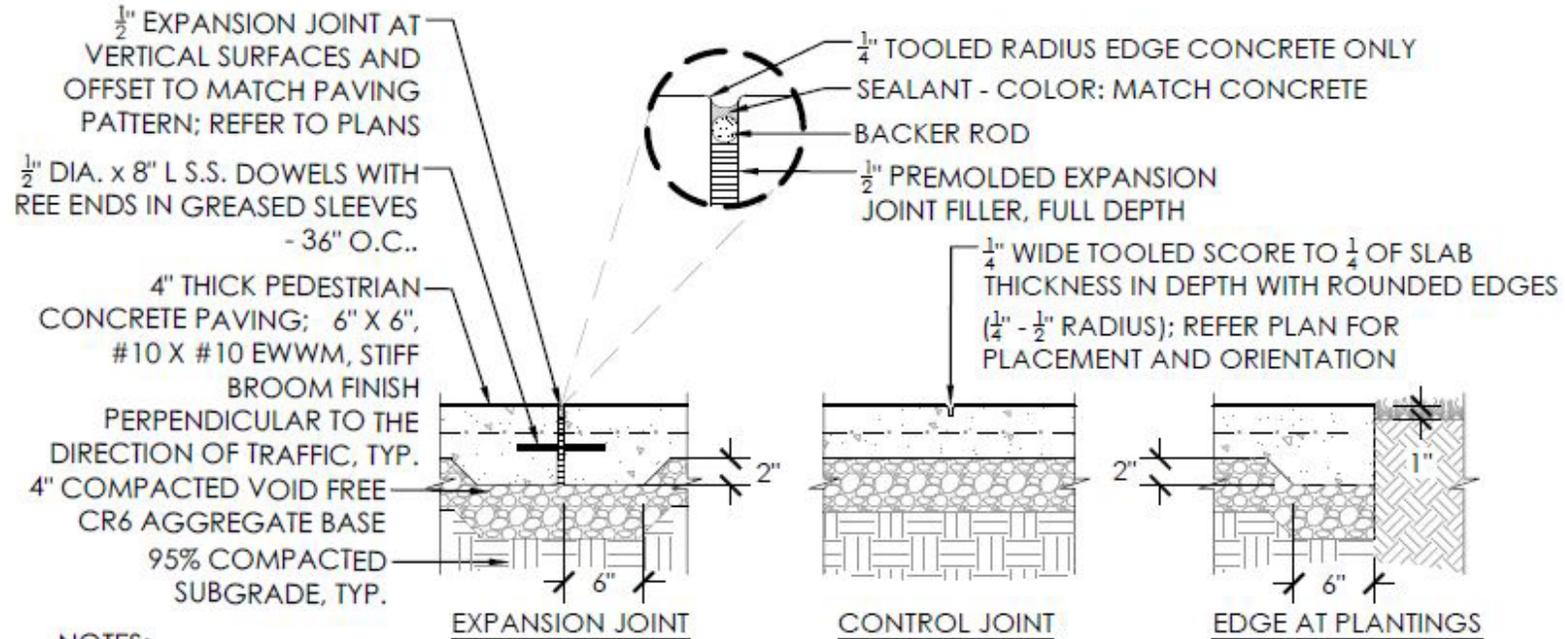
1. INSTALL PAVER COURSES IN STRAIGHT LINES AND TRUE ARCS AND TANGENTS.
2. FOR ALL CUTS, REPLICATE EDGE CONDITION OF UNCUT UNIT.
3. INSTALL CUT UNITS MIN. 10 UNITS FROM ENDS OF COURSE. CUT UNITS LESS THAN  $\frac{1}{2}$  PAVER DIMENSION ARE PROHIBITED. REMOVE CUT UNIT AND 2 ADJACENT UNITS; INSTALL 3 EQUAL CUT UNITS.
4. FOR RADIAL COURSES, INSTALL SYMMETRICALLY CUT UNITS AT REGULAR INTERVALS. CUT EACH UNIT FOR SMALLER RADII AND AS DIRECTED BY ARCHITECT.



UNIT PAVERS AT OTHER PAVING

1 1/2" = 1'

# Construction Details



## NOTES:

1. CONDITIONS VARY, PROVIDE EXPANSION JOINT WHERE WALKS ARE POURED AGAINST VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS AND AS SPECIFIED IN CIVIL DRAWINGS. EXPANSION JOINTS SHALL OCCUR EVERY 400 SF OR 20 LF IN SIDEWALKS.
2. MEET 1" ABOVE ADJACENT FINISHED LAWN AND PLANTING AREA GRADES.
3. REMOVE TOOL MARKS.
4. CROSS SLOPES ON SIDEWALKS MUST NOT BE LESS THAN 1% OR EXCEED 2%. MANHOLES, VALVE BOXES AND OTHER AT GRADE UTILITIES AND COVERS MUST BE ADJUSTED TO MEET FINISH GRADE.



PEDESTRIAN CONCRETE PAVING

1' = 1'-0"

# Paving Material Selection

- Clay Brick vs Concrete Pavers
- Color Mix
- Traditional Edge vs Permeable Pavers



# Paving Material Selection

Clay Brick



Concrete Pavers



# Paving Material Selection

Color Mix: What's there today



@ Signet Park



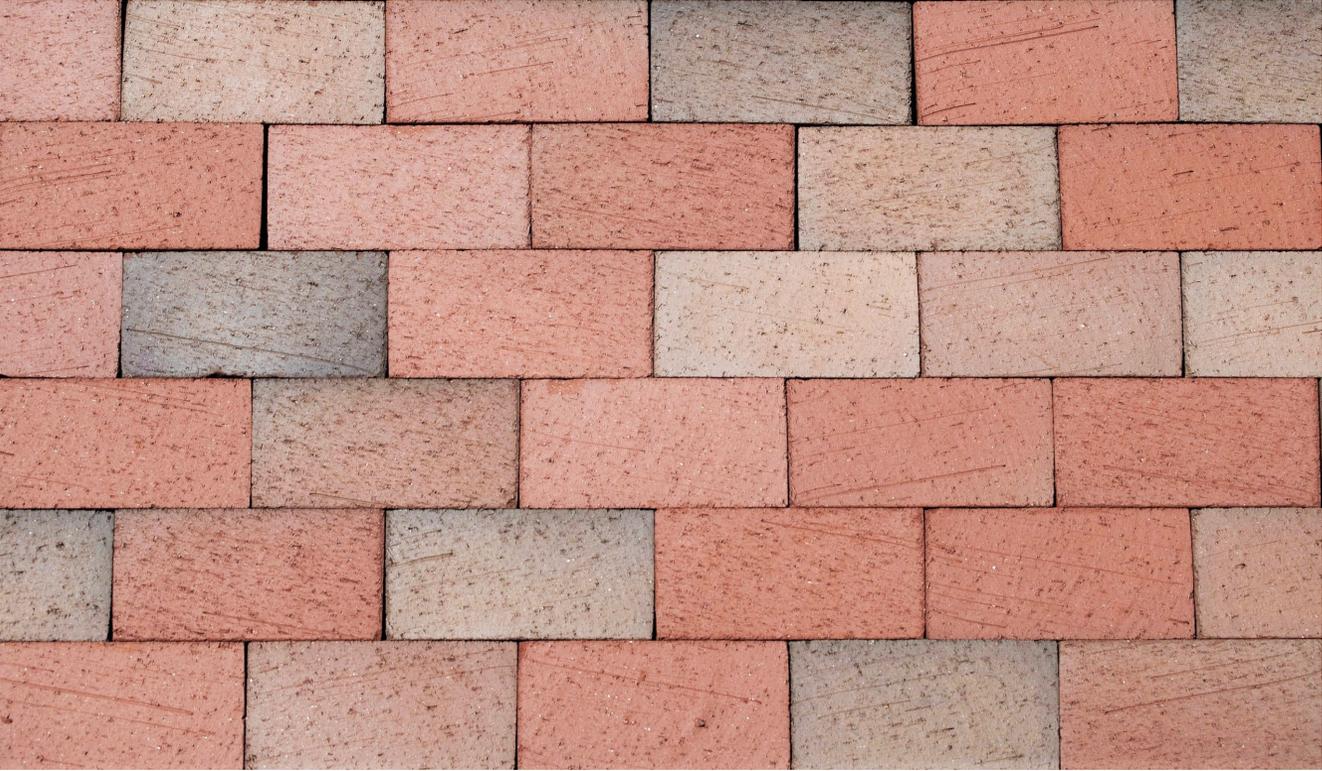
Along Elm Street



Along Chain Bridge Rd

# Paving Material Selection

## Color Mix: Recommendation

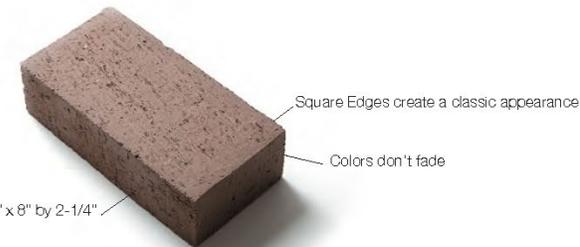
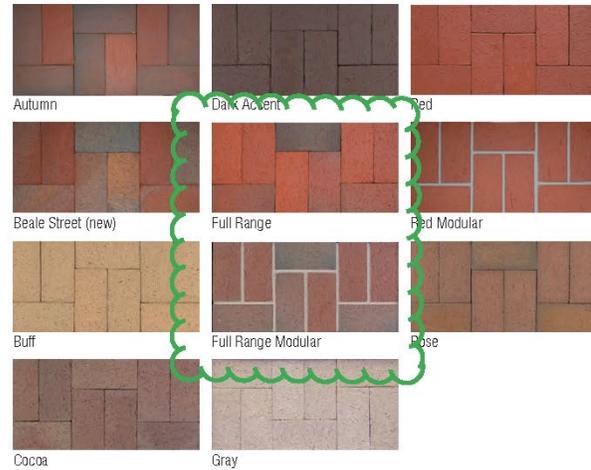




## Traditional Edge Pavers

Traditional Edge pavers have square edges for the timeless appearance of authentic clay pavers made for over a hundred years. Traditional Edge pavers need to be laid with a minimum 1/16" sand joint to minimize chipping.

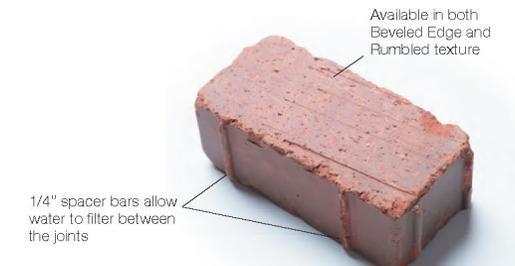
### Pathway



pinehallbrick.com

## StormPave™ Water Permeable Pavers

StormPave™ is an amazing breakthrough in water permeable paving. StormPave clay pavers have beveled edges and large spacer bars that allow rain to filter between washed aggregate in the joints to a specially constructed catchment area underneath the pavers. The water then dissipates naturally into the native soils. StormPave pavers are available in standard 4" x 8" by 2-1/4" thickness as well as 2-3/4" thickness for heavy vehicular applications. For more information, go to [pinehallbrick.com/permeable](http://pinehallbrick.com/permeable)



pinehallbrick.com

# Paving Material Selection

## Marie Reed Pavers on Concrete



## Marie Reed Permeable Pavers





PLANNING & DEVELOPMENT



Q & A