

## 5.00 DETAILS

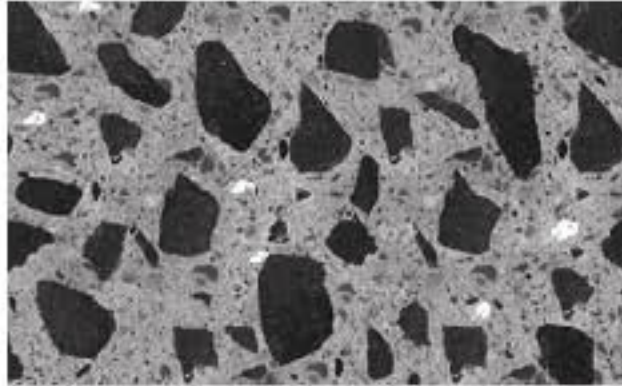
### 5.01 PARK PAVING

The Master Plan specifies a few paving surfaces for the Great Falls State Park ranging from cast stone, concrete with exposed basalt aggregate, basalt screening, gravel, two types of custom concrete pavers (one permeable, one solid) inspired by the geological columnar structures of the basalt, wood decking, and steel grates. This variety affords a wide range of applications that are responsive to specific conditions of the site, function and conveyance requirements, and design intent.

108 cast stone



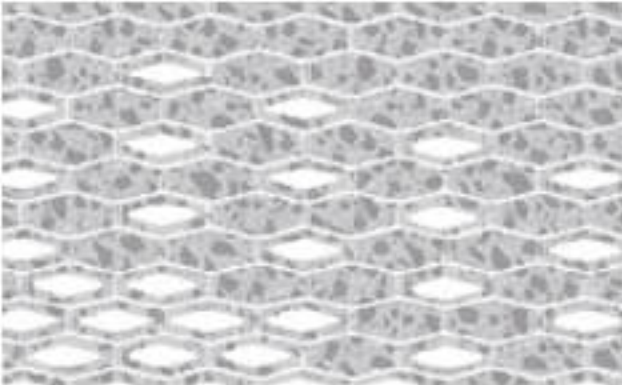
exposed basalt aggregate



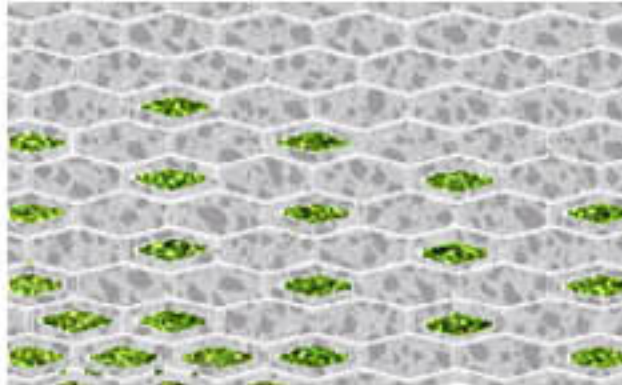
basalt screening



custom paver



custom paver with grass



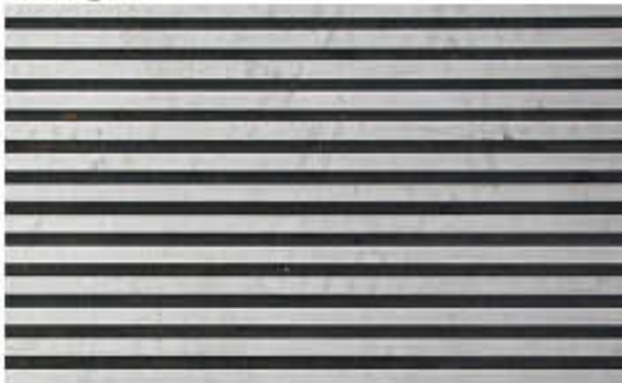
reinforced grass



wood



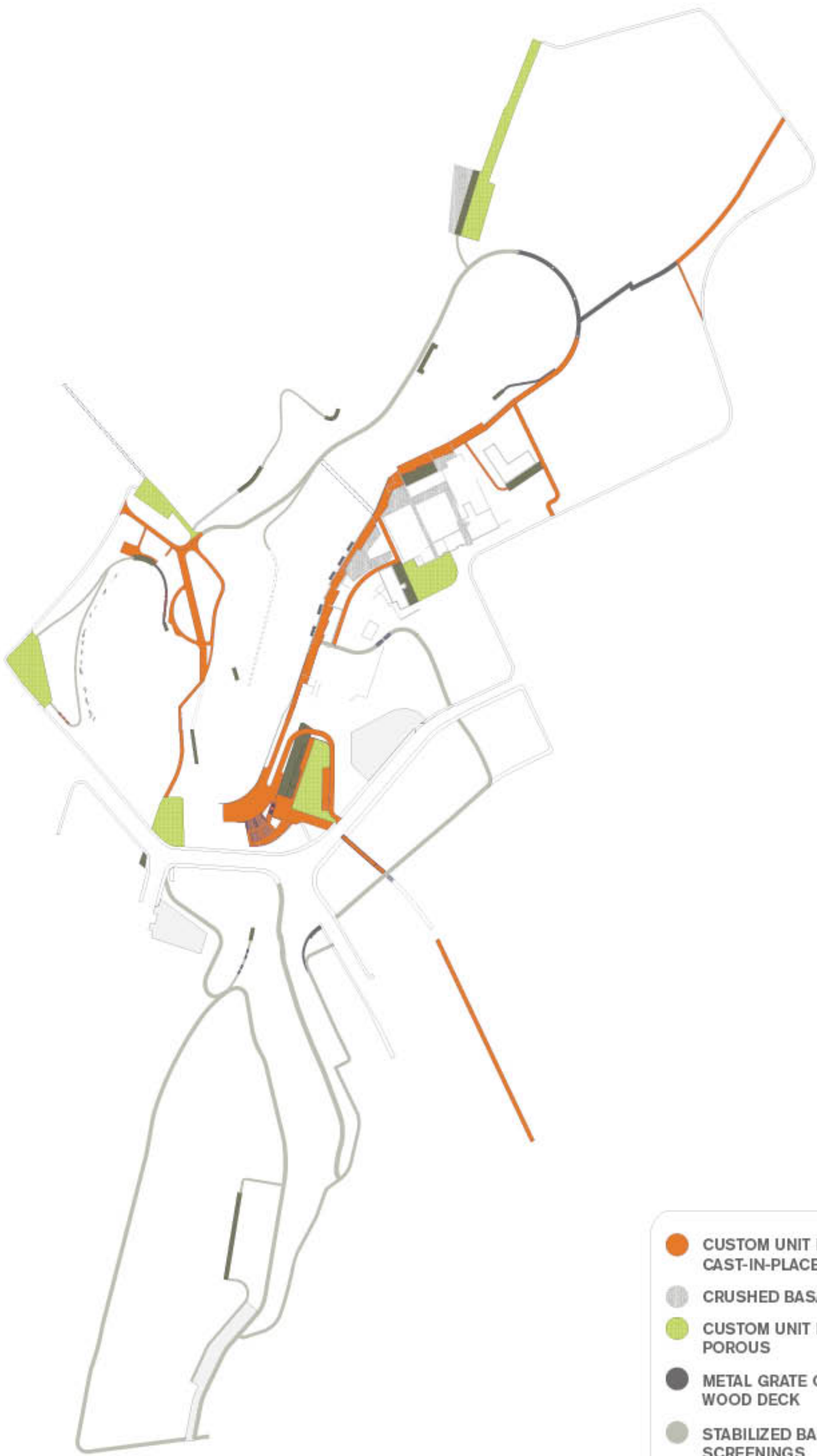
metal grate



grass



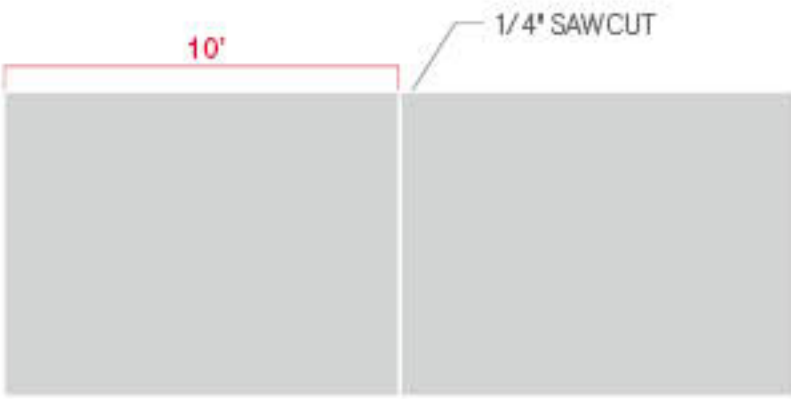




- CUSTOM UNIT PAVER + CAST-IN-PLACE CONCRETE
- CRUSHED BASALT
- CUSTOM UNIT PAVER - POROUS
- METAL GRATE OR WOOD DECK
- STABILIZED BASALT SCREENINGS



CAST-IN-PLACE CONCRETE



STEPSTONE RECTANGULAR PAVERS

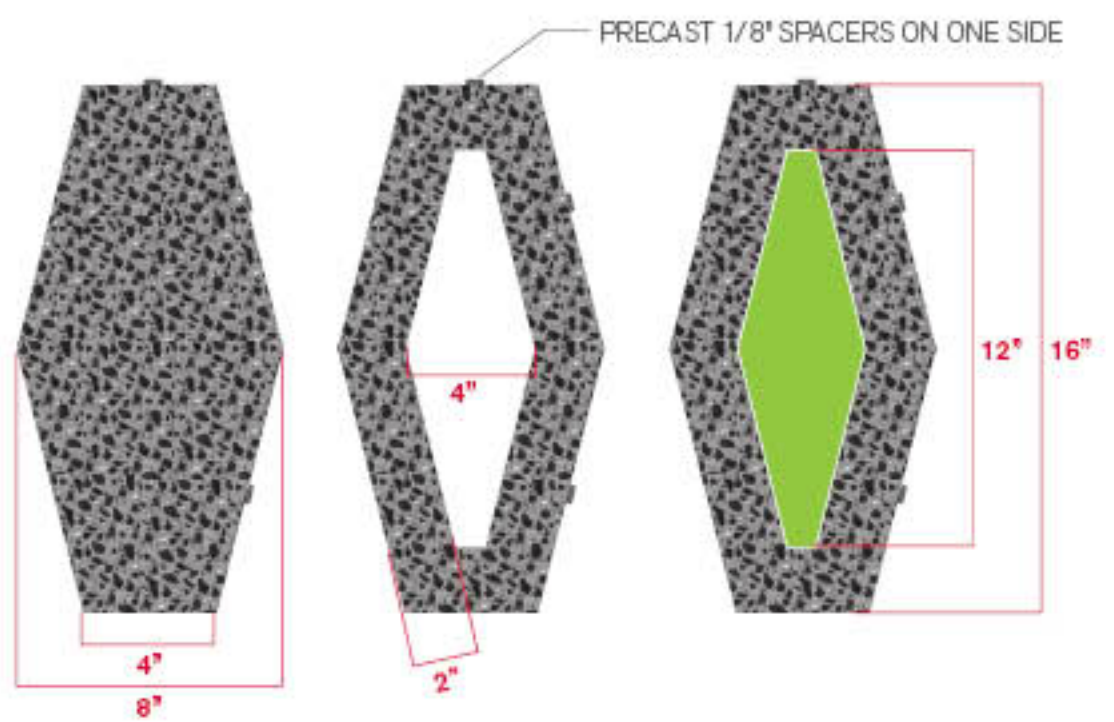
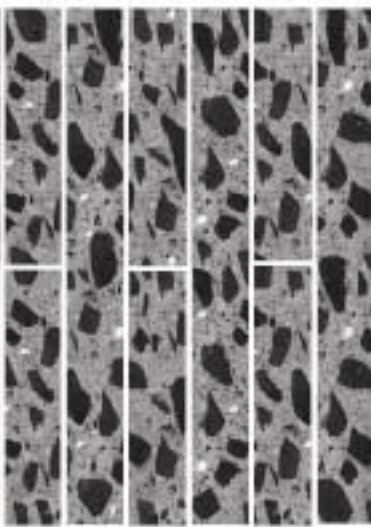


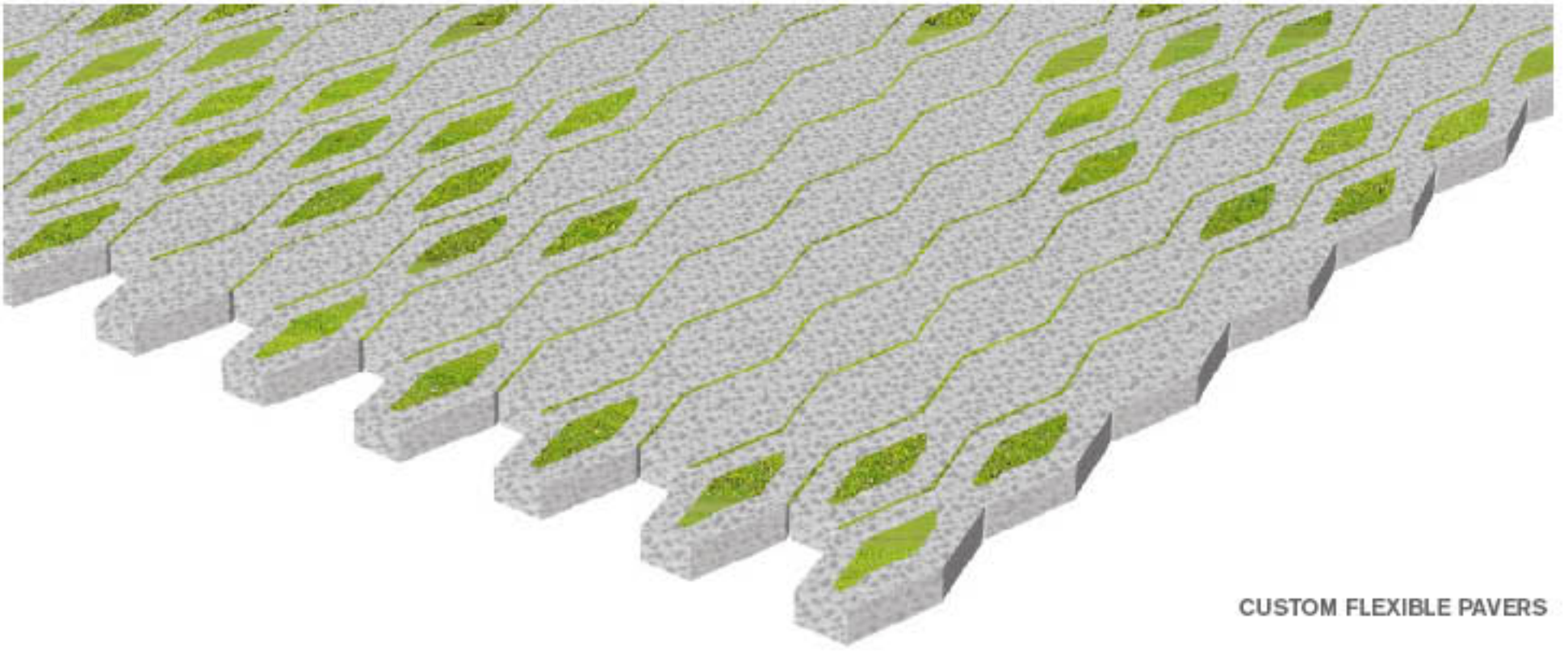
110

CAST IN PLACE CONCRETE

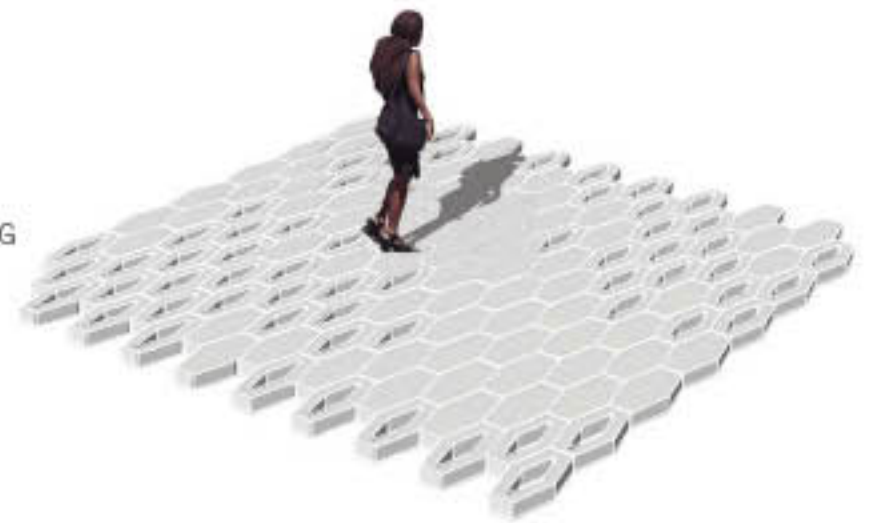
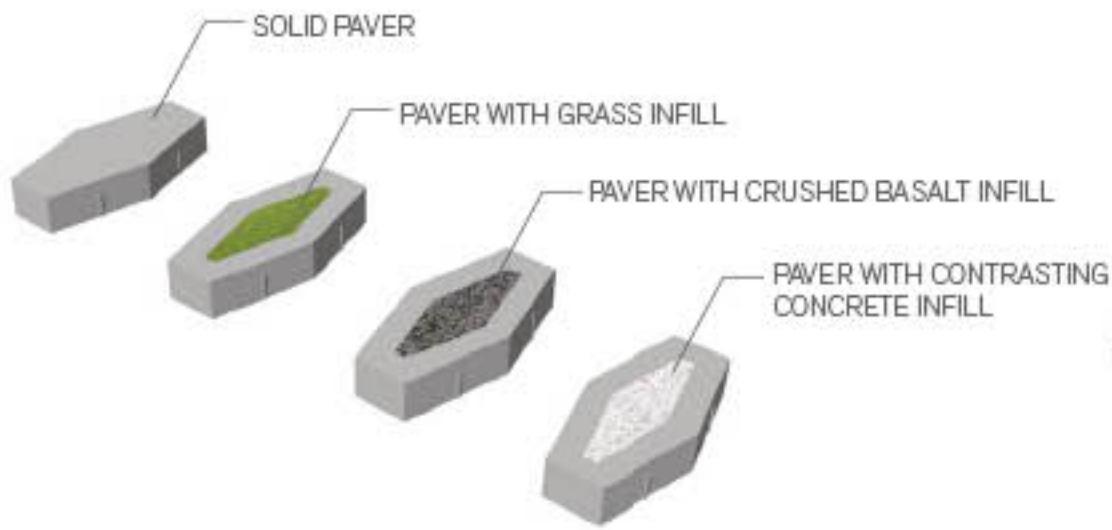
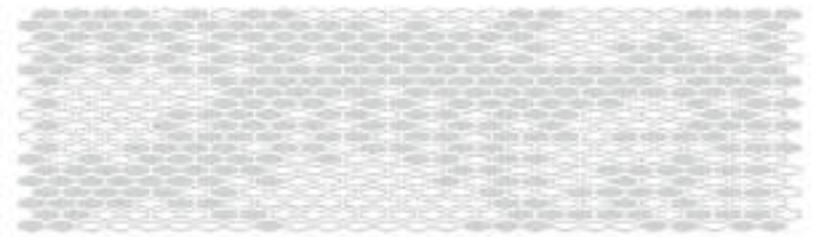
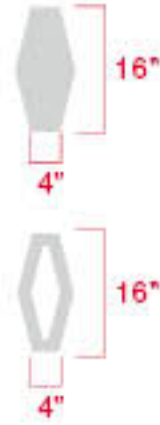


CAST IN PLACE CONCRETE WITH EXPOSED BASALT AGGREGATE





CUSTOM FLEXIBLE PAVERS



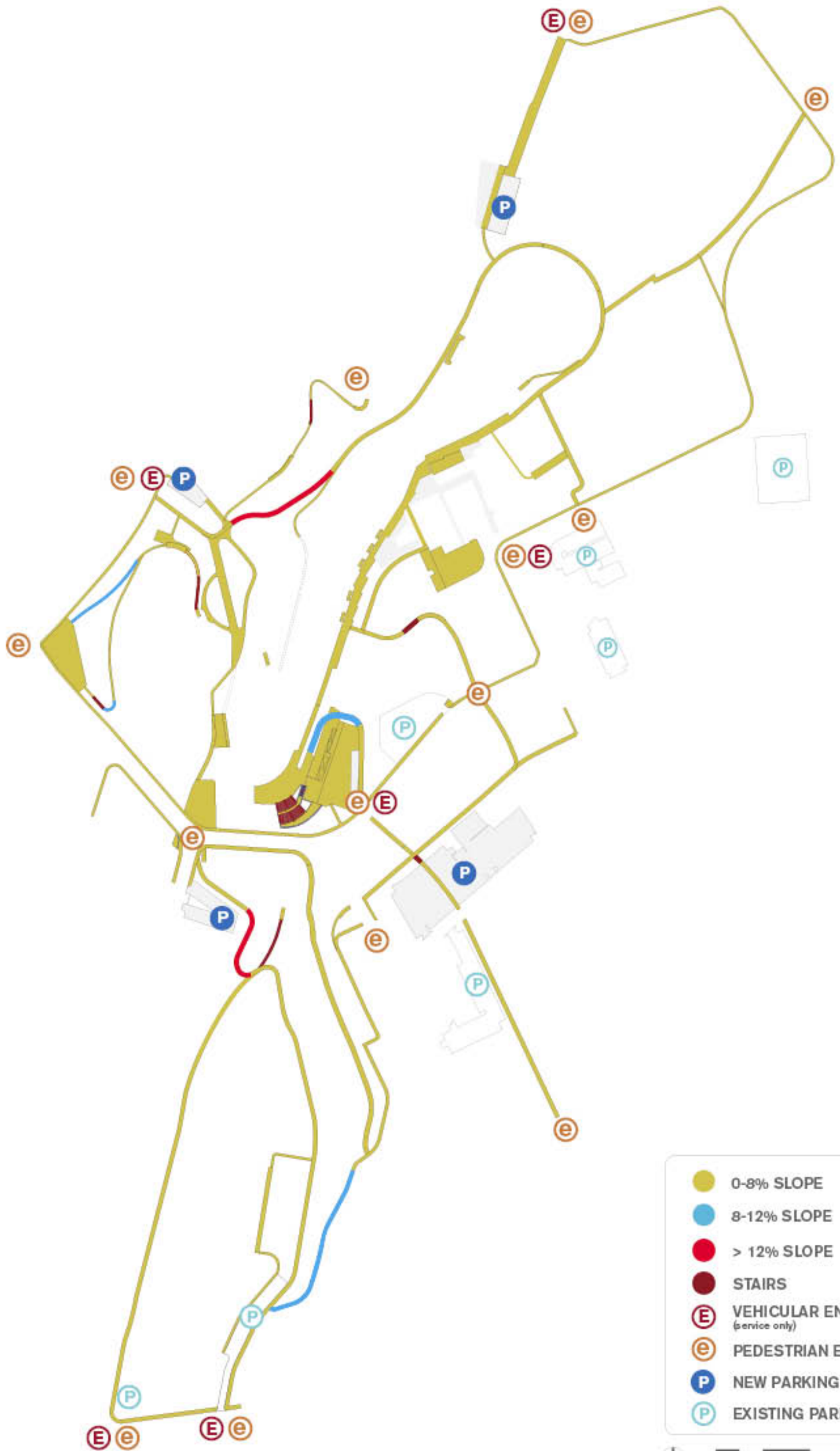


## 5.02 PARK CIRCULATION, ACCESS AND PARKING

The backbone of the proposed Park circulation is the Great Falls loop path, which supports a network of secondary paths that peel off through the various rooms. The Great Falls loop is the primary means of conveyance through the Park, facilitating pedestrians, bikers and service vehicles. It ranges in width from 8'-20' depending on site specific constraints. The secondary paths range from 6'-10' and primarily cater to pedestrians.

The site, given its spectacular topography, is an asset and a challenge; it creates dramatic vistas and unique environments, which pose difficulties for ADA access. The intent is that the Great Falls loop be ADA accessible while the secondary paths explore and build upon the existing topography.

The existing parking lots are nearly full during the work week, but currently have plenty of space on the weekends. In the short-term this flux will work well, as the Park will begin to utilize the otherwise empty parking lots on the weekends. For the long-term, the existing parking lots will be insufficient in capacity for the final build out of the Park. A new multi-story parking garage has been proposed by the city along Market Street, across from the Paterson Museum parking lot and New Jersey Transit bus terminal.



- 0-8% SLOPE
- 8-12% SLOPE
- > 12% SLOPE
- STAIRS
- E VEHICULAR ENTRY (service only)
- e PEDESTRIAN ENTRY
- P NEW PARKING
- P EXISTING PARKING



### 5.03 PARK FURNISHINGS

The Great Falls State Park furnishings are designed to encourage congregation, activities and interaction among the Park users. The furnishing palette, especially the seating, is designed as a series of generously dimensioned elements that are wider or longer than standard fixtures. For example, the Park benches are 12' long; the Mary Ellen Kramer Park picnic tables can be aligned end-on-end, offering table lengths ranging from 8'- 24' long to accommodate large groups and events.

The furnishings are intended to evoke the industrial past with simple forms, materials and connections. The material selection reinforces the design intent and allows for flexibility of choices as the Park develops over time. The materials are durable and to the extent possible recycled, sustainable and vandal-proof. These materials include Weathered (Corten) steel, powder-coated steel, galvanized steel, concrete, wood, recycled plastic and basalt in special areas.

114 corten steel



cast stone



powder coated steel



galvanized steel



wood



basalt



recycled plastic







- 8' MODULAR PICNIC BENCH (8', 16', 24' LONG)
- LOUNGES
- TABLES
- MOVEABLES
- 12' LONG BENCH
- AMPHITHEATER





CUSTOM BENCHES

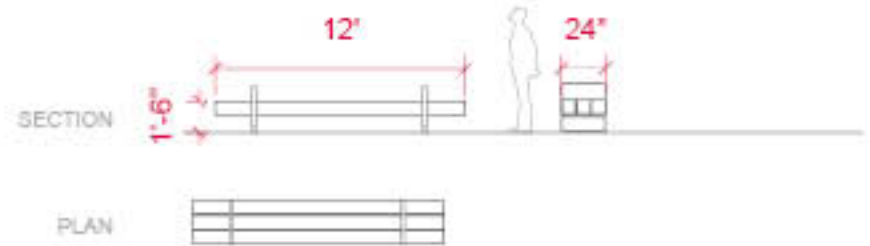
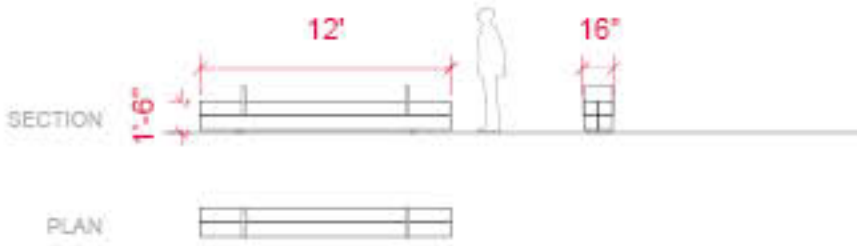
1\_NARROW BENCH WITH ARMRESTS



2\_WIDE BENCH WITH ARMRESTS



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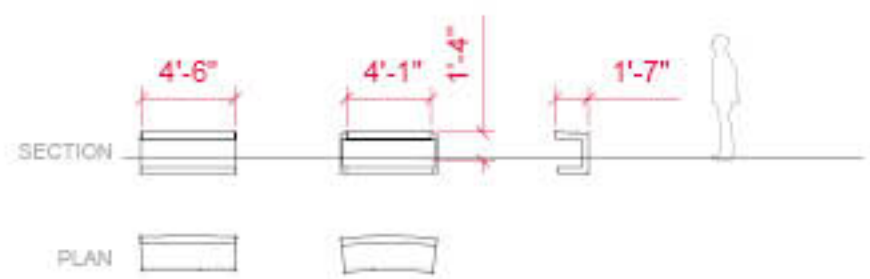
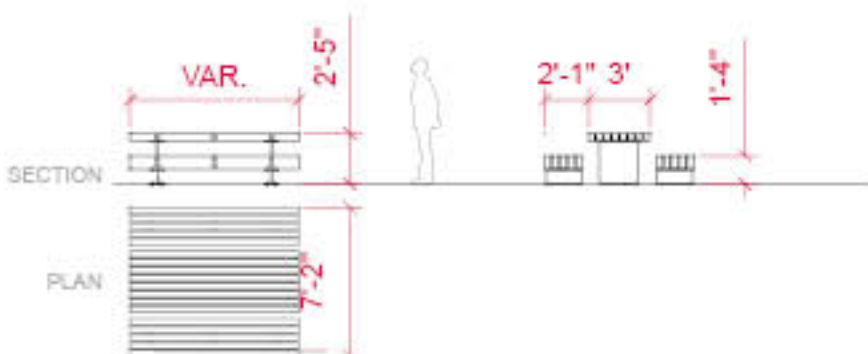


STANDARD FURNISHINGS

1\_ESCOFET TRAMET PICNIC TABLE



2\_RECYCLED PLASTIC ILLUMINATED BENCH



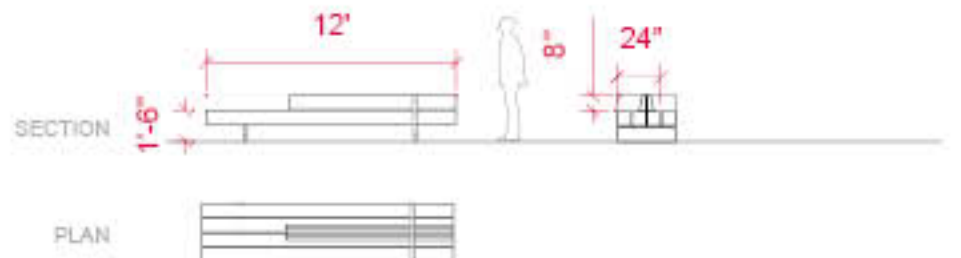
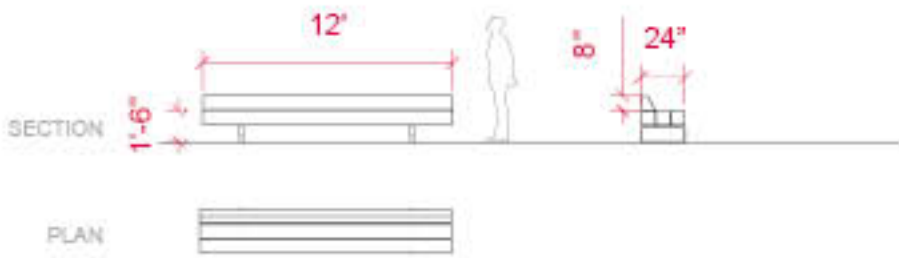
3\_WIDE BENCH WITH FULL BACK



4\_SUPER WIDE BENCH WITH HALF BACK + ARMREST



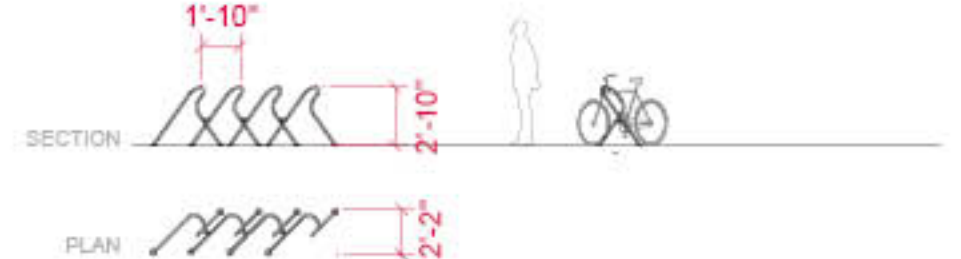
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3\_ESCOFET MOREELA TRASH BIN



4\_SANTA & COLE MONTANA BIKE RACK





## 5.04 PARK RAILINGS AND GUARDRAILS

The Great Falls Loop features a simple rail detail that accommodates historical, cultural and ecological information. The rail is designed to work as a module with varying heights: low height for plant protection, medium height as a handrail, and a high option for a guardrail. The railing signage will be inscribed with images and text describing riparian ecosystems, historical information, Native American stories, and quotes by local poets, writers, and activists.

corten steel



galvanized steel



powder coated steel





 HANDRAIL  
 GUARDRAIL



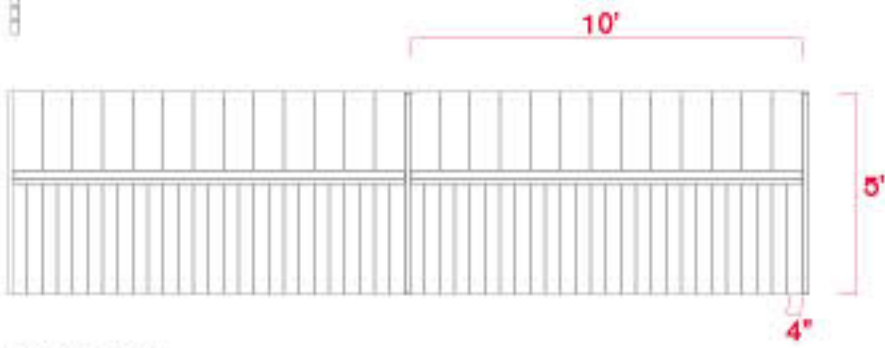


GUARDRAIL

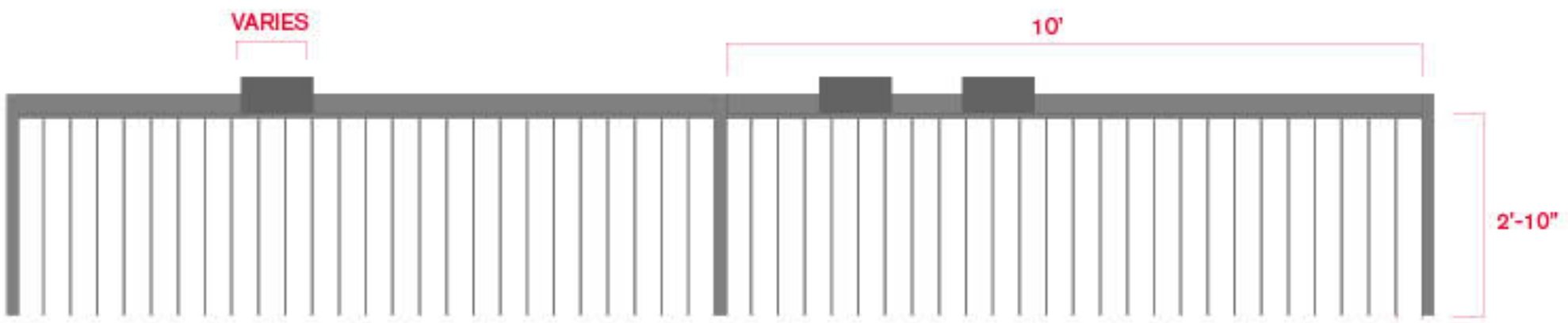
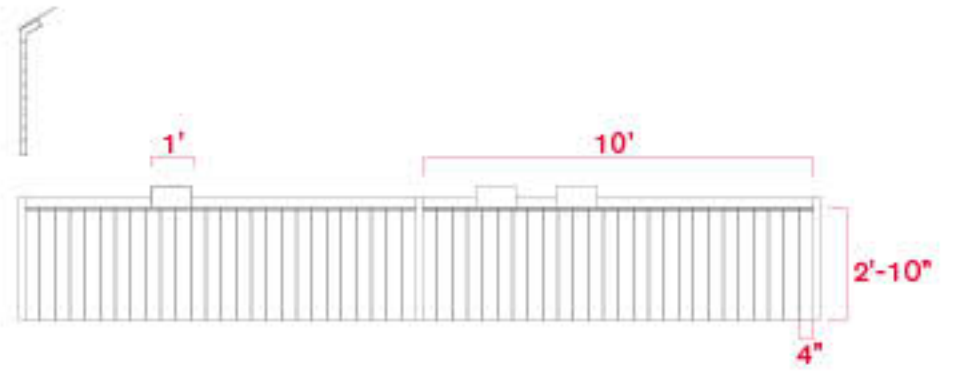
RAILING - TYPE 1



120



ELEVATION  
TYPICAL RAILING



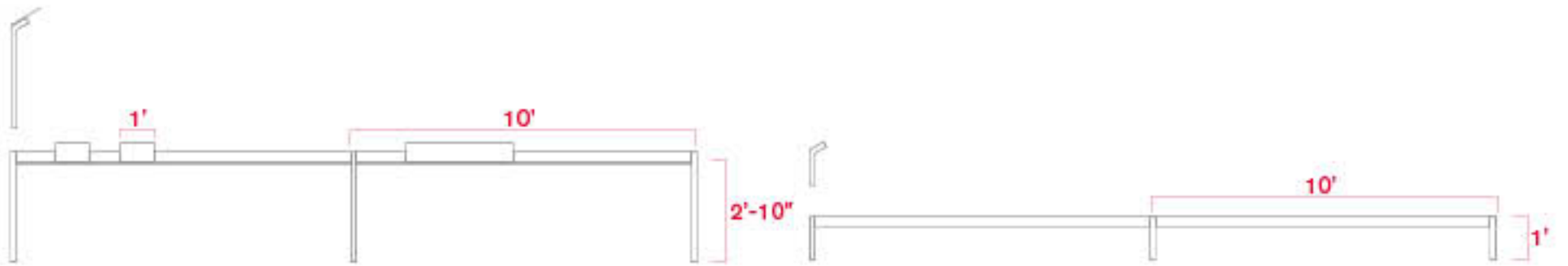


RAILING -TYPE 2

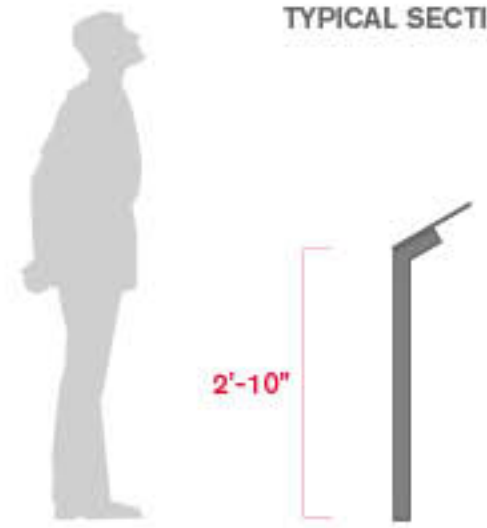
RAILING -TYPE 3



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TYPICAL SECTION





## 5.05 PARK LIGHTING

Lighting is a significant element in the Park. The intent of the Park lighting design is threefold: 1. to create safe and usable nighttime environments; 2. to assist visitor orientation through an organized hierarchical lighting system; and 3. to accentuate and call attention to the amazing features in the Park.

The lighting organization system is the nighttime 'backbone' of the Park. Most importantly it demarcates entries to the Park, primary paths, and secondary paths. It also reinforces the rooms as spaces and highlights special features such as the ruins, the amphitheater and the Great Falls. Where the Park meets city streets (along the bridges and Spruce St., McBride St., Mill St., Van Houten St., Memorial Dr., Ryle Ave., and Maple St.), the Great Falls Historic District standard lighting fixture will be used to heighten the interface between the new state Park and the Historic District.

The design team recommends a simple lighting palette, as shown in the next pages. The fixtures play a secondary role to the landscape during daytime and their illumination patterns play a primary role at nighttime. The main fixture type is a 'family' of the same light fixture allowing for a flexible yet site specific, unified approach. The integration of solar powered lighting fixtures and the use of water turbines for power generation are also being considered.

corten steel



galvanized steel



powder coated steel



brushed steel



hardwood

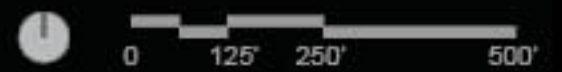


painted aluminum





- STREET LIGHTING  
GFHD LIGHT
- PATH LIGHTING
- PLAZA LIGHTING
- ROOM LIGHTING





**RECOMMENDED OPTIONS**

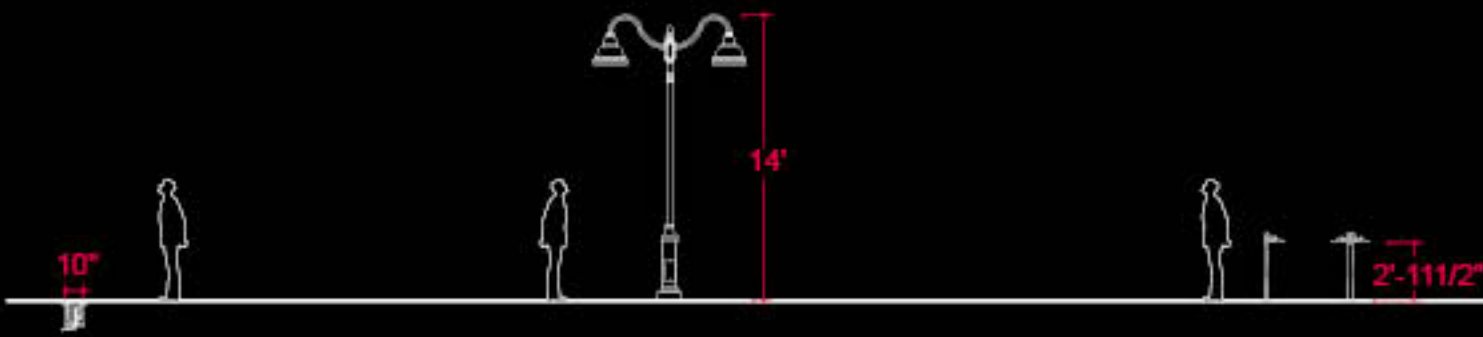
**INGRADE LIGHTING  
ACCENT**

**HISTORICAL DISTRICT LIGHT  
STREETS + SIDEWALKS**

**NOVARA L BOLLARD  
PATHS + AMPHITHEATER**

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SECTION



PLAN



**ALTERNATIVE OPTIONS**

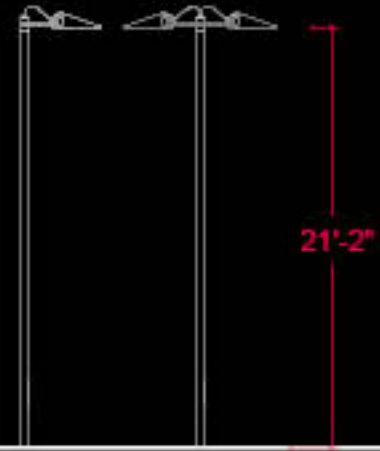
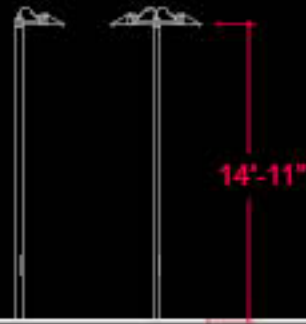
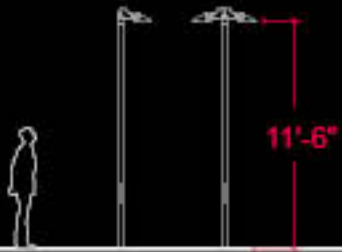






**NOVARA ML LIGHT POLE**  
LOOP PATH

**NOVARA SL + SXL LIGHT POLES**  
ROOMS + PLAZAS





## 5.06 PARK PLANTING

The proposed planting reinforces the Park's organization and its concept. Park entries are demarcated by groves of flowering trees and each room is enhanced with plant material that exhibits the unique character of the room and its latent, native condition. Consideration is given to plant structure, texture, color, and seasonal interest throughout the Park such that each visit offers a new and constantly changing experience.

Plants are also selected based on their capacity to increase biodiversity, encourage habitat, and support the immediate environment, whether it's stabilizing a steep bank or adding nutrient to shallow poor soil.

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structure



texture



color



seasonal change



shade



volume



narrative



Indigenous natives



habitat





**EXERCISE ROOM + VALLEY OF THE ROCKS**

**VINES**

VIRGINIA CREEPER, *Parthenocissus quinquefolia*  
WILD GRAPE, *Vitis* spp.

**HERBACEOUS**

CLIFF FERN, *Woodsia ilvensis*  
SPLEENWORT, *Asplenium platyneuron*  
SENSITIVE FERN, *Oncoclea sensibilis*  
RED COLUMBINE, *Aquilegia canadensis*  
ALUMROOT, *Heuchera americana*  
SEDGES  
SEDUMS

**RIVER PARK ROOM**

**TREES**

RIVER BIRCH, *Betula nigra*

**SHRUBS**

SMOOTH ALDER, *Alnus serrulata*  
SPICEBUSH, *Lindera benzoin*

**GREAT FALLS ROOM**

**VINES**

VIRGINIA CREEPER, *Parthenocissus quinquefolia*

**HERBACEOUS**

CLIFF FERN, *Woodsia ilvensis*  
SPLEENWORT, *Asplenium platyneuron*

**RIVER ROOM**

**TREES**

GREEN ASH, *Fraxinus pensylvanica*  
BLACK WILLOW, *Salix nigra*  
RED MAPLE, *Acer rubrum*  
SYCAMORE, *Platanus occidentalis*  
REDBUD, *Cercis canadensis*  
RIVER BIRCH, *Betula nigra*

**SHRUBS**

ELDERBERRY, *Sambucus canadensis*  
SMOOTH ALDER, *Alnus serrulata*  
SPICEBUSH, *Lindera benzoin*

**THE QUARRY + ATP SITE**

**TREES**

GREY BIRCH, *Betula populifolia*  
BLACK LOCUST, *Robinia pseudoacacia*  
EASTERN RED CEDAR, *Juniperus virginiana*  
SUMAC, *Rhus Glabra + Rhus typhina*  
TREE OF HEAVEN, *Ailanthus altissima* (male)  
RED OAK, *Quercus rubra*

**SHRUBS**

HIGH BUSH BLUEBERRY, *Vaccinium corymbosum*  
GREY DOGWOOD, *Cornus racemosa*  
PASTURE ROSE, *Rosa rugosa*  
DOWNY SERVICEBERRY, *Amelanchier arborea*

**VINES**

VIRGINIA CREEPER, *Parthenocissus quinquefolia*

**HERBACEOUS**

MEADOW GOLDENROD, *Solidago canadensis*  
ASTERS, *Aster* spp.  
COMMON MILKWEED, *Asclepias syriaca*  
INDIAN HEMP DOGBANE, *Apocynum cannabinum*  
WHITE SNAKEROOT, *Eupatorium rugosum*  
NEW YORK IRONWEED, *Vernonia noveboracensis*  
JOE PYE WEED, *Eupatorium purpureum*  
BUTTERFLY WEED, *Asclepias tuberosa*  
OX-EYE SUNFLOWER, *Helianthus helianthoides*  
SUNSET CONEFLOWER, *Echinacea purpurea*

**UPPER RACEWAY**

**TREES**

DOGWOOD, *Cornus florida*  
WHITE PINE, *Pinus strobus*  
REDBUD, *Cercis canadensis*  
AMERICAN BEECH, *Fagus grandifolia*  
SASSAFRAS, *Sassafras albidum*

**SHRUBS**

WITCH HAZEL, *Witch hazel*  
CURRANT, *Ribes rotundifolium*  
SPICEBUSH, *Lindera benzoin*  
RHODODENDRON, *Rhododendron maximum*  
POSSUMHAW VIBURNUM, *Viburnum nudum*  
PINK STERB AZALEA, *Rhododendron periclymenoides*

**HERBACEOUS**

CHRISTMAS FERN, *Polystichum acrostichoides*  
TRILLIUM, *Trillium erectum*  
JACK-IN-THE-PULPIT, *Arisaema triphyllum*  
PRIMROSE VIOLET, *Viola primulifolia*  
MEADOW GOLDENROD, *Solidago canadensis*  
BUTTERFLY WEED, *Asclepias tuberosa*  
BLOODROOT, *Sanguinaria Canadensis*

**BALCONY + OVERLOOK PLAZA**

**TREES**

CRAB APPLE, *Malus coronaria*  
SMOOTH HAWTHORN, *Crataegus laevigata*

**SHRUBS**

RIBES ROTUNDIFOLIUM, *Appalachian gooseberry*

**HERBACEOUS**

FLOWERING MEADOW

