

BELLE ISLE

NATURE EXPLORATION AREA

URBAN DESIGN COMMITTEE
FINAL REVIEW
OCT 10, 2024



MARVEL

SITE PLAN



UDC CONCEPTUAL REVIEW FEEDBACK

DRAINAGE & PLANTING:

- + Stormwater management plan
- + Berm: how to build?
- + Flood risk (FEMA flood zone)
- + Consider planting pawpaws away from seating areas

AMENITIES:

- + Provide extra seating outside of the active zone
- + Provide interpretive signage for education
- + Need for restroom and drinking water access
- + Provide trash cans
- + Provide dog waste station
- + No dog signage

ACCESSIBILITY:

- + Provide a platform that can transfer people out of their wheelchair
- + Accessibility of ground materials

MATERIALS:

- + Material sample board
- + Details



DRAINAGE

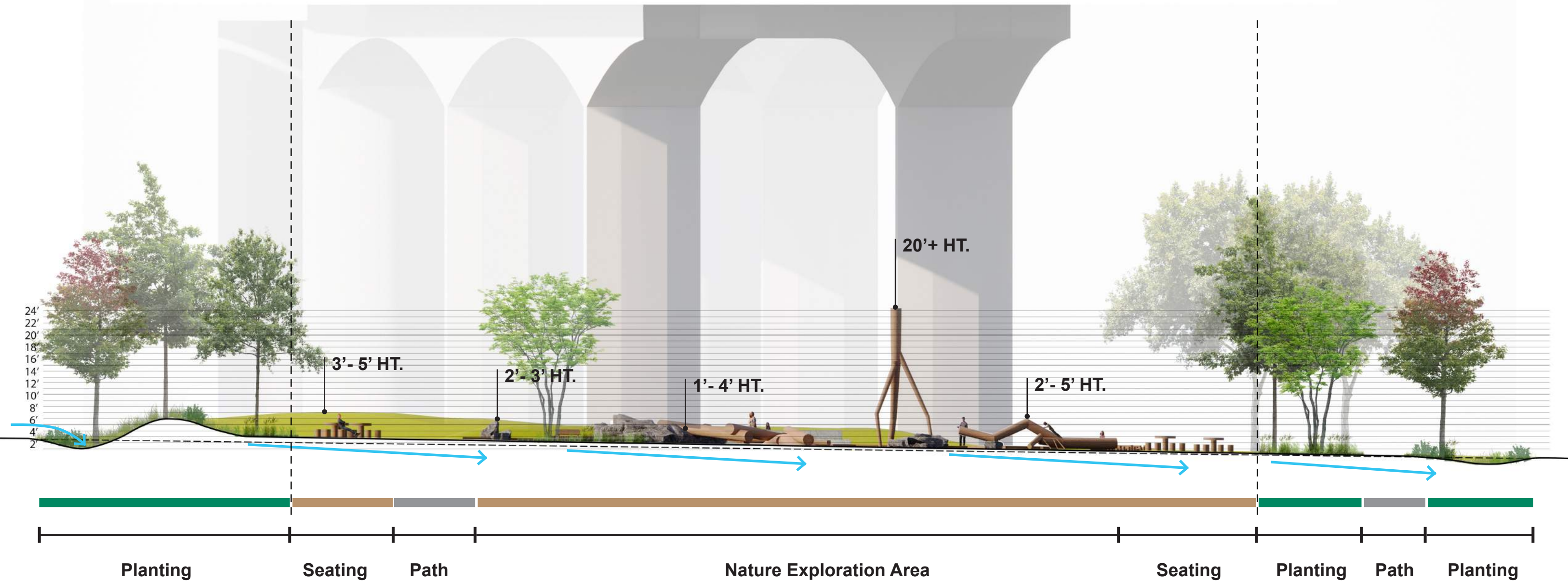


LP +

HP +

LP +



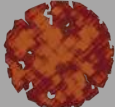
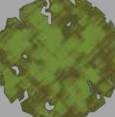




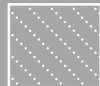
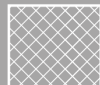

DRAINAGE



MARVEL

PLANTING



-  Buttonbush
-  Silky Dogwood
-  Red Maple
-  Swamp White Oak
-  Spicebush
-  Serviceberry
-  Pawpaw
-  River Birch
-  Berm planting palette
-  Lowland Riparian planting palette (Perennials/Grass)
-  Wet Riparian planting palette (Perennials/Grass)



WET RIPARIAN PLANTING PALETTE



TREES



Red Maple
Acer rubrum



FLOWERING TREES



Silky Dogwood
Cornus amomum



SHRUBS



Buttonbush
Cephalanthus occidentalis



PERENNIALS/GRASS



Blue Mist Flower
Conoclinium coelestinum



Sensitive Fern
Onoclea sensibilis



Swamp White Oak
Quercus bicolor



Swamp Milkweed
Asclepias incarnata



● Full sun ○ Partial shade ● Full shade



LOWLAND RIPARIAN PLANTING PALETTE



TREES



River Birch
Betula nigra



FLOWERING TREES



Serviceberry
Amelanchier canadensis



SHRUBS



Spicebush
Lindera benzoin



PERENNIALS/GRASS



Virginia Bluebells
Mertensia virginica



River Oats
Chasmanthium latifolium



Pawpaw
Asimina triloba



Starry Campion
Silene stellata



● Full sun ○ Partial shade ● Full shade

BERM PLANTING PALETTE



Creeping Red Fescue 30%
Festuca rubra



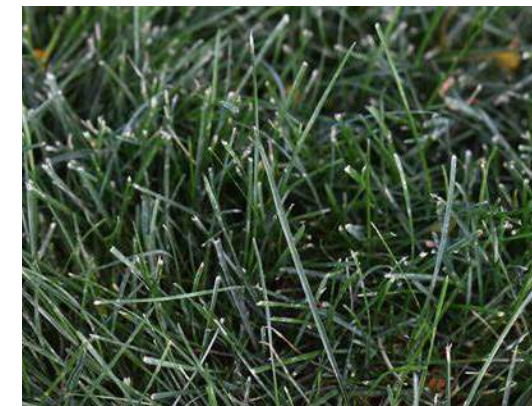
● Full sun ○ Partial shade



Chewings Fescue 30%
Festuca rubra ssp. commutata



Annual Ryegrass 20%
Lolium multiflorum



Kentucky Bluegrass, 'Maverick' 10%
Poa pratensis, 'Maverick'



Rough Bluegrass 10%
Poa trivialis



PLANTING

WET RIPARIAN

Red Maple *Acer rubrum*

Swamp White Oak *Quercus bicolor*

Silky Dogwood *Cornus amomum*

Buttonbush *Cephalanthus occidentalis*

Blue Mist Flower *Conoclinium coelestinum*

Swamp Milkweed *Asclepias incarnata*

Sensitive Fern *Onoclea sensibilis*

LOWLAND RIPARIAN

River Birch *Betula nigra*

Pawpaw *Asimina triloba*

Serviceberry *Amelanchier canadensis*

Spicebush *Lindera benzoin*

Virginia Bluebells *Mertensia virginica*

Starry Campion *Silene stellata*

River Oats *Chasmanthium latifolium*



MARVEL

PLANTING SCHEDULE

TREE	QUANTITY	SIZE	CONTAINER	SPACING	REMARKS
Red Maple <i>Acer rubrum</i>	7	2" CAL.	B&B	SPACING AS SHOWN	
Swamp White Oak <i>Quercus bicolor</i>	9	2" CAL.	B&B	SPACING AS SHOWN	
Silky Dogwood <i>Cornus amomum</i>	21	8-12' HT	B&B	SPACING AS SHOWN	
River Birch <i>Betula nigra</i>	7	12-15' HT	B&B	SPACING AS SHOWN	MUTI-STEM SPECIMEN WITH (3)MIN. LEADER
Pawpaw <i>Asimina triloba</i>	7	4-6' HT	B&B	SPACING AS SHOWN	
Serviceberry <i>Amelanchier canadensis</i>	11	4-6' HT	B&B	SPACING AS SHOWN	MUTI-STEM SPECIMEN WITH (3)MIN. LEADER

SHRUB

Buttonbush <i>Cephalanthus occidentalis</i>	19	3 GAL.	POT	30" O.C.	
Spicebush <i>Lindera benzoin</i>	4	3 GAL.	POT	30" O.C.	

PERENNIAL&GRASS

WET RIPARIAN PALETTE

QUANTITY

22,611 SF

Blue Mist Flower <i>Conoclinium coelestinum</i>	25%
Swamp Milkweed <i>Asclepias incarnata</i>	25%
Sensitive Fern <i>Onoclea sensibilis</i>	50%

LOWLAND RIPARIAN PALETTE

10,570 SF

Virginia Bluebells <i>Mertensia virginica</i>	25%
Starry Campion <i>Silene stellata</i>	25%
River Oats <i>Chasmanthium latifolium</i>	50%

BERM PALETTE

6,704 SF

Creeping Red Fescue <i>Festuca rubra</i>	30%
Chewings Fescus <i>Festuca rubra ssp. commutata</i>	30%
Annual Ryegrass <i>Lolium multiflorum</i>	20%
Kentucky Bluegrass <i>Poa pratensis, 'Maverick'</i>	10%
Rough Bluegrass <i>Poa trivialis</i>	10%



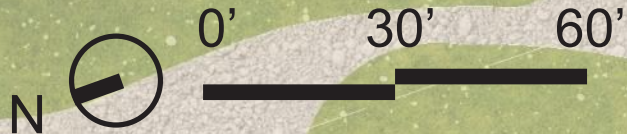
MARVEL

AMENITIES: SEATING

Tables & Chairs

Tables & Chairs

Benches



AMENITIES

Trash can

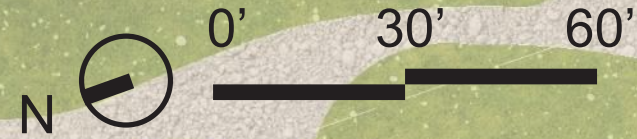
Signage

Future restroom with drinking fountain

Trash can

Signage

Future Restroom



ACCESSIBILITY



Accessible platform

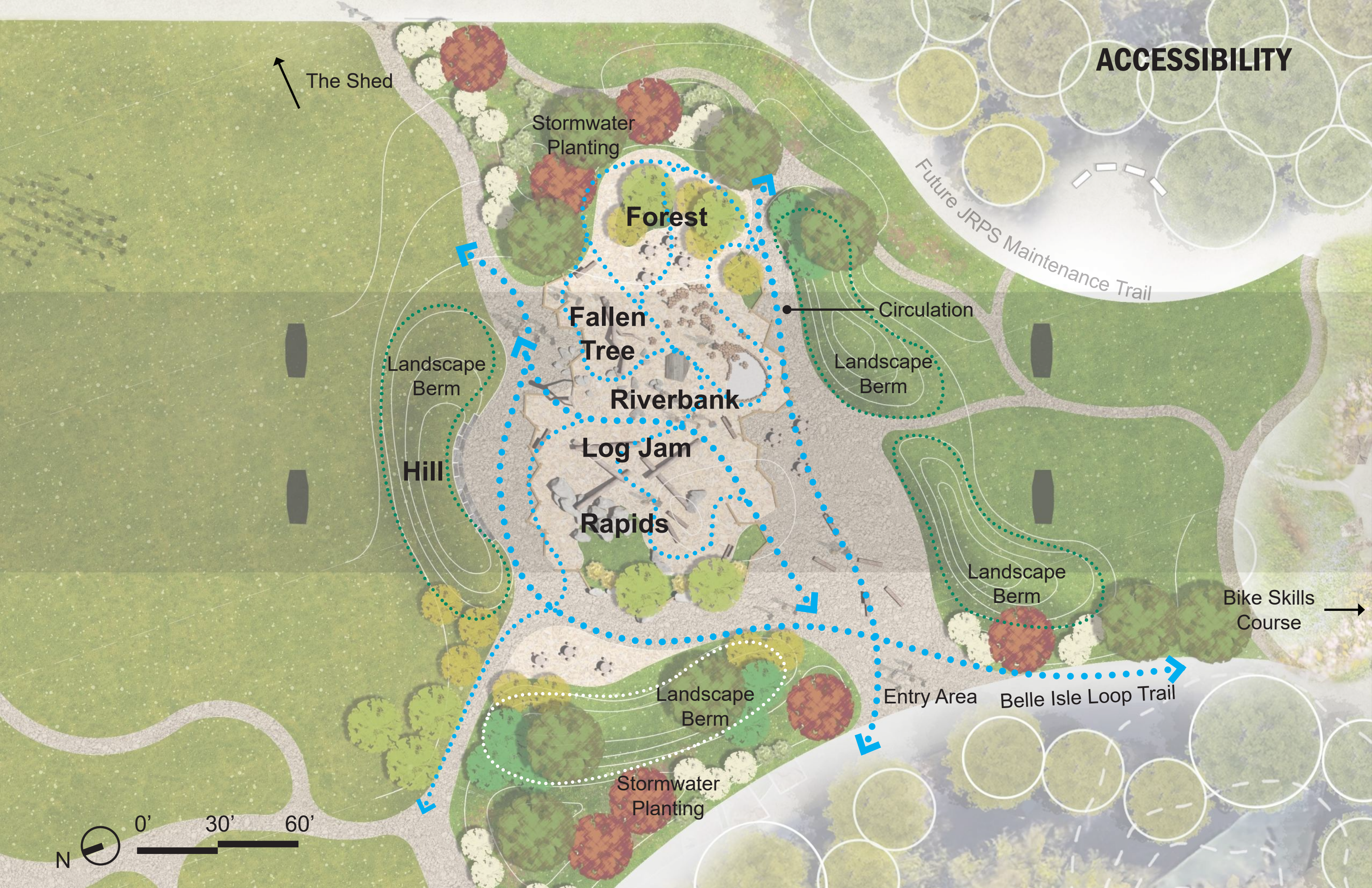
Engineered wood fiber

ADA Entrance

Companion seating

Crush & run gravel





ACCESSIBILITY

The Shed

Stormwater Planting

Forest

Future JRPS Maintenance Trail

Fallen Tree

Circulation

Landscape Berm

Landscape Berm

Riverbank

Log Jam

Hill

Landscape Berm

Bike Skills Course

Rapids

Landscape Berm

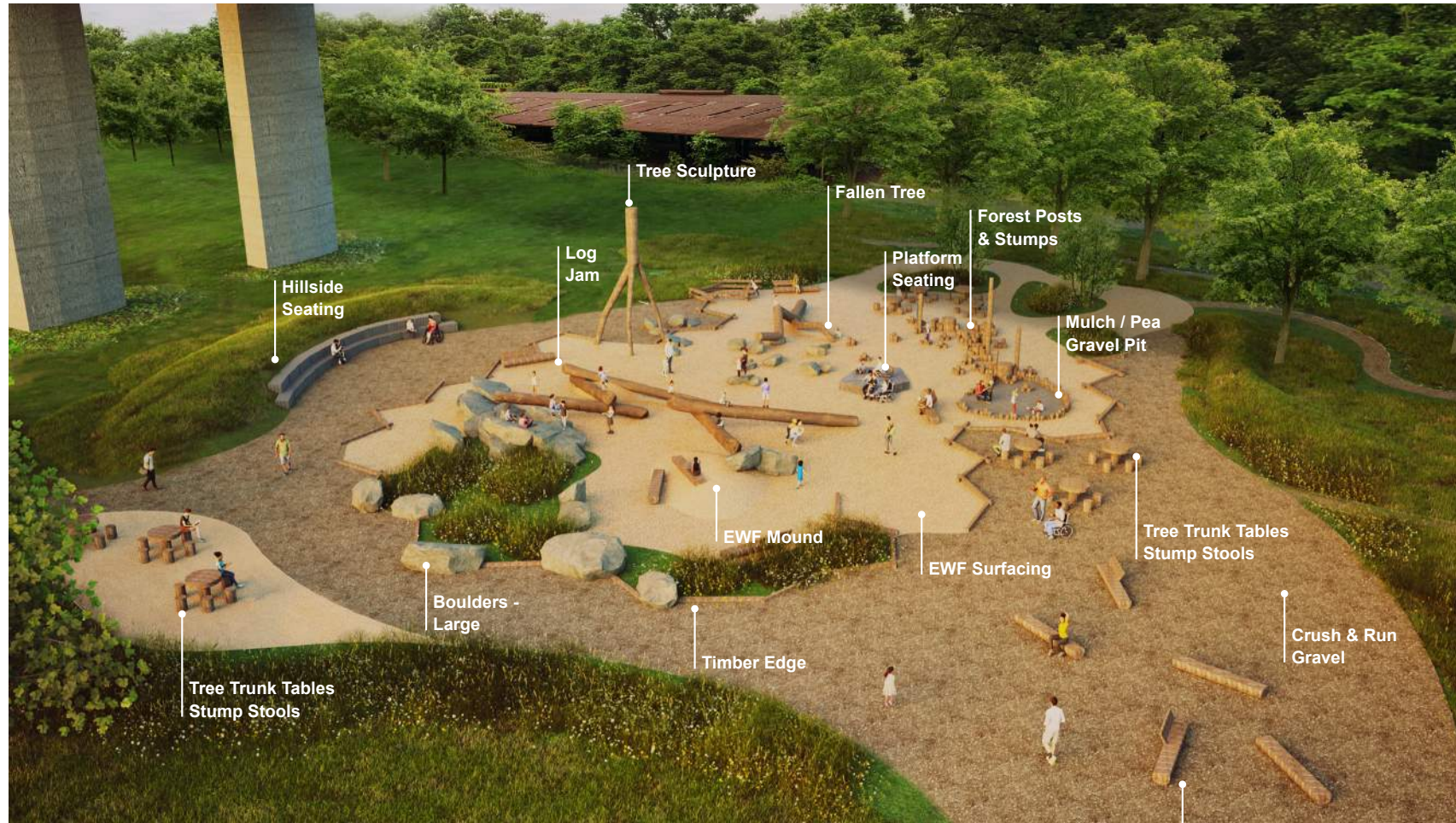
Entry Area Belle Isle Loop Trail

Stormwater Planting

0' 30' 60'



NEA MATERIAL PALETTE



Milled Lumber
Edging, Balance Structures, and Fencing



Whole Tree Structures
Seating / Tables / Exploration Elements



Reclaimed Granite
Reclaimed Building Material for Seating



Pea Gravel
Loose Material for Manipulative Play



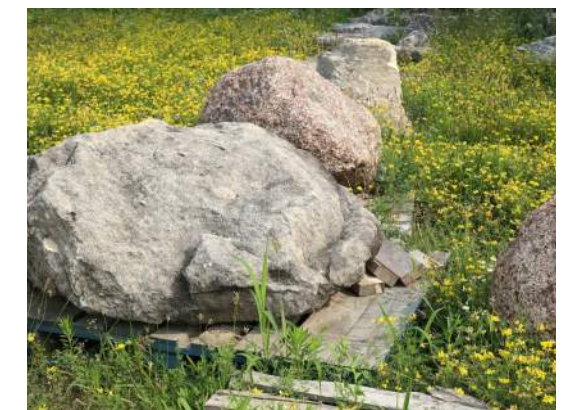
Gravel Paths
To mimic other Belle Isle Trails



Engineered Wood Fiber (EWF)
Locally Sourced and Natural (not dyed)

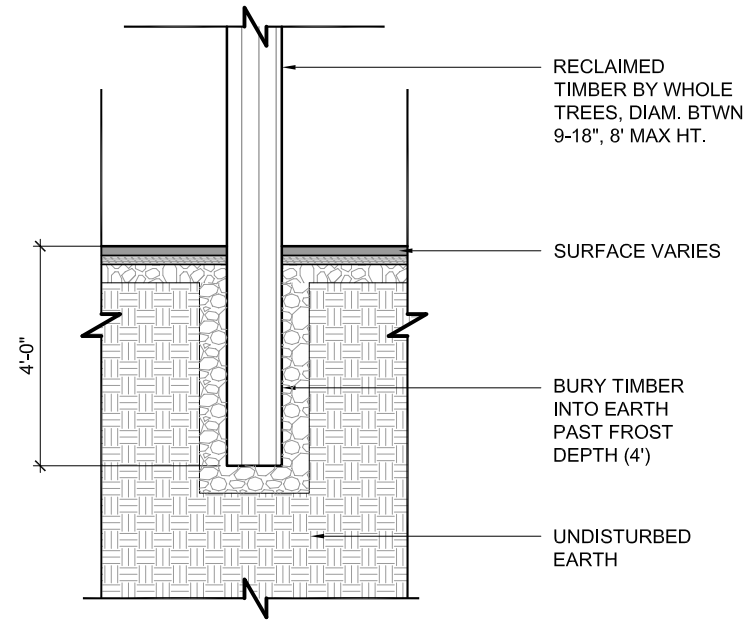


Vertical Natural Tree Structures
Sculptural Elements for Balance and Exploration

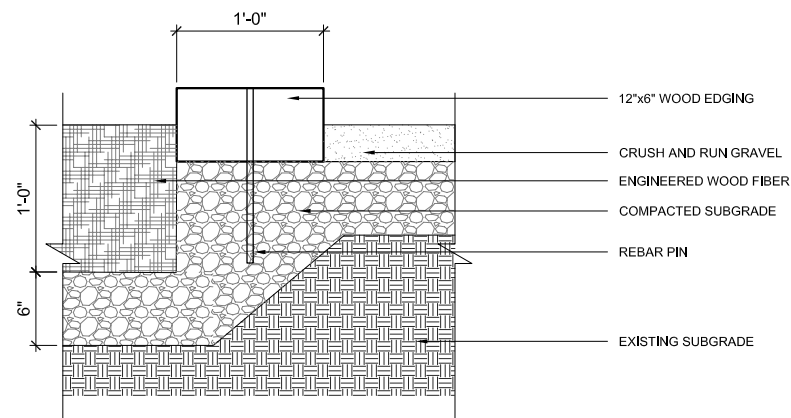


Natural Granite Boulders
Locally Sourced and Natural

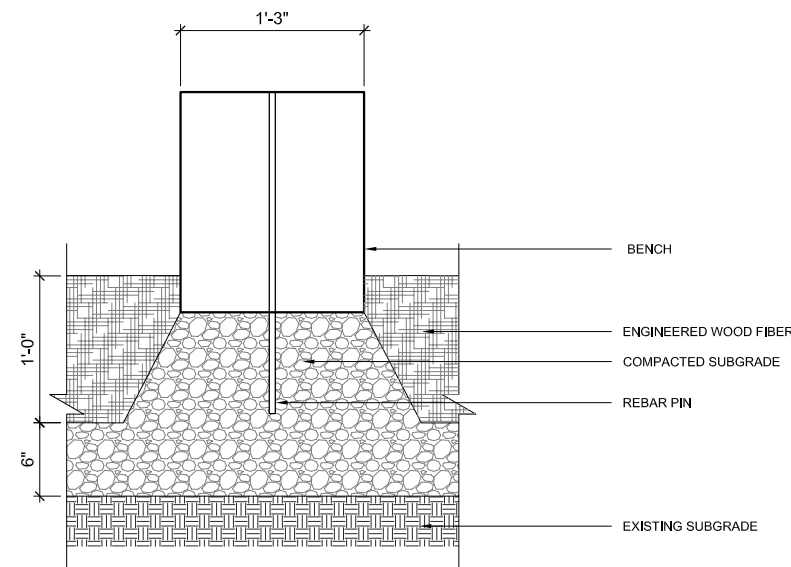
SITE DETAILS



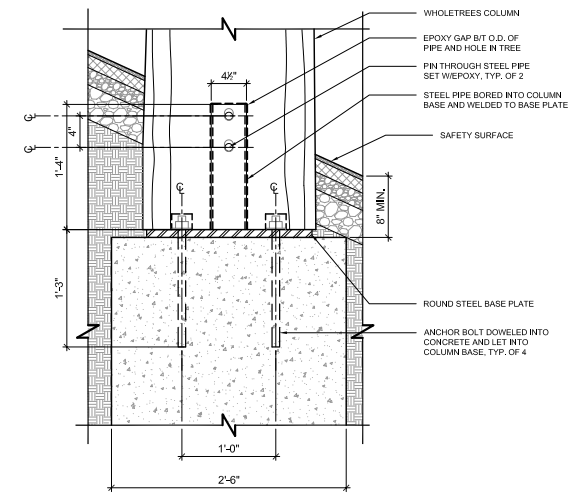
Stumps



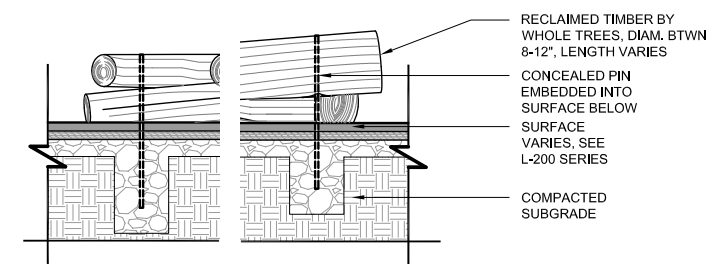
Edging



Benches

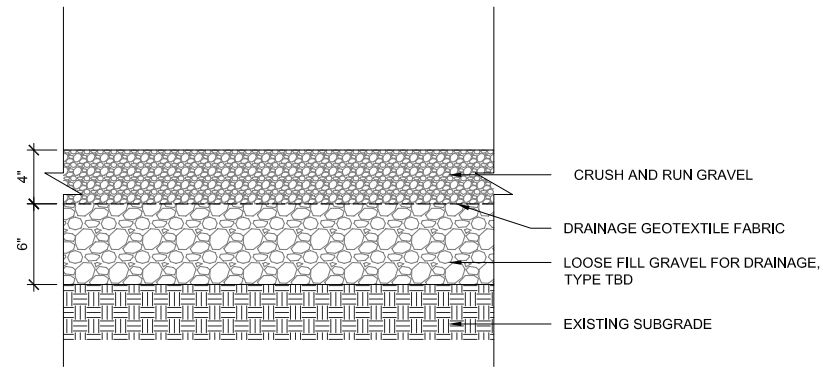


Inverted Tree

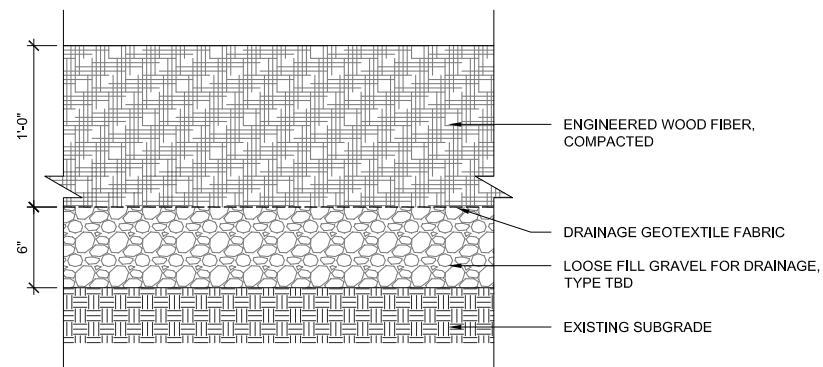


Log Jam & Fallen Tree

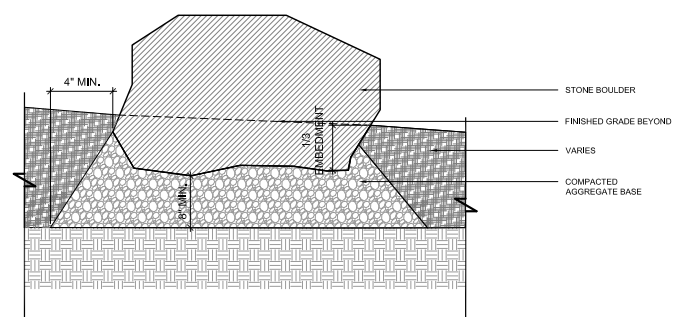




Gravel Path



Engineered Wood Fiber (EWF)



Natural Granite Boulders





Log Jam

Tree Sculpture

Fallen Tree

Platform Seating

Seating Area

Forest Stumps & Posts

Forest Planting

Pea Gravel Pit

Timber Edge

Entrance



MARVEL



Forest Stumps & Posts

Pea Gravel Pit

Belle Isle Loop Trail

Platform Seating

Fallen Tree

Log Jam

Boulders

Corral for loose materials

Backed Seating



MARVEL

Friends of the James River Park



Tree Sculpture

Log Jam

Landscape Berm & Hillside Seating

Boulders

Platform Seating

Log Bench

Seating Area

Timber Edge



MAP ELEMENT



Forest Stumps
& Posts

Platform seating

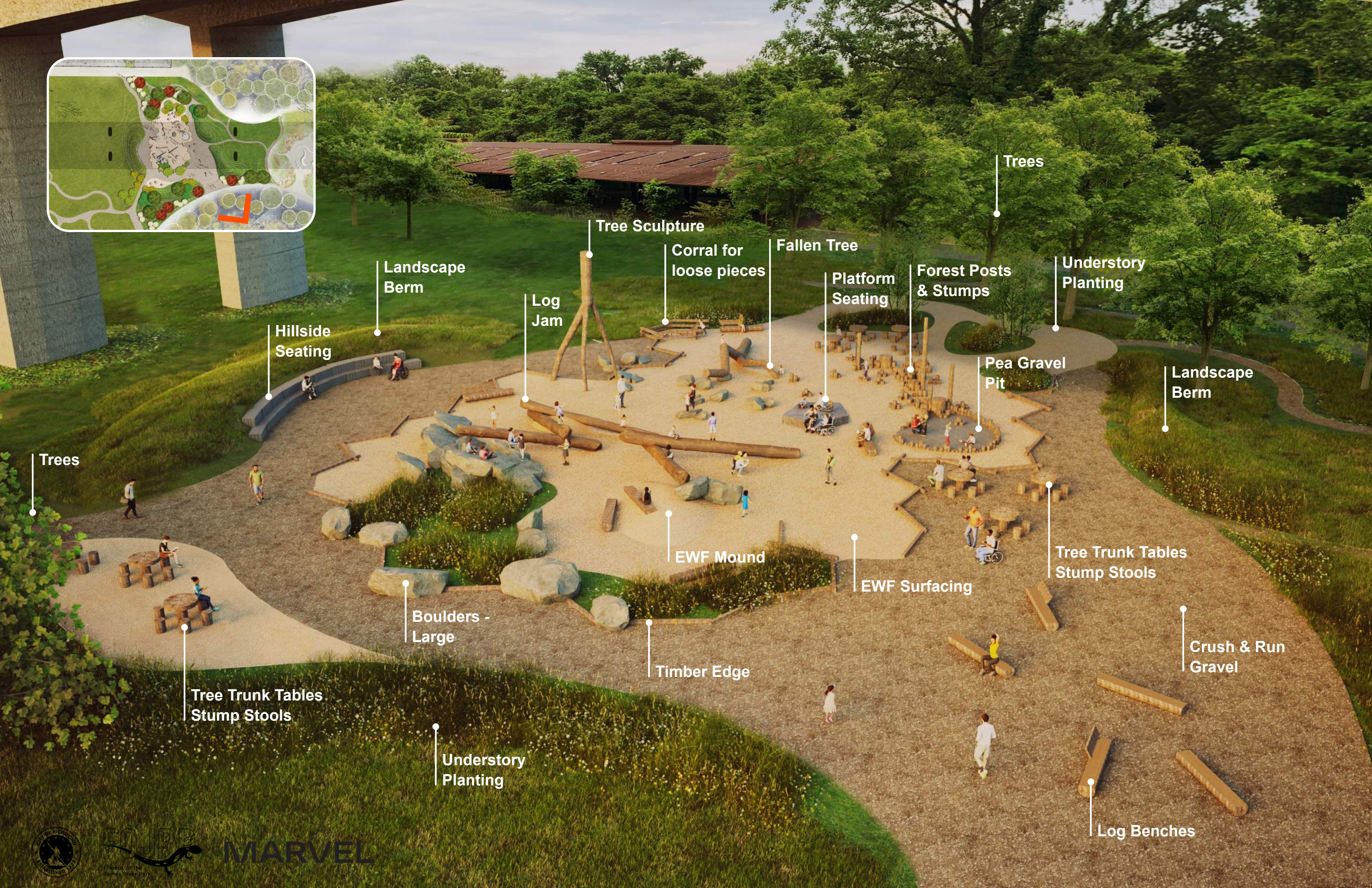
Pea Gravel
Pit

Log Bench

Timber Edge



MARVEL



Trees

Hillside Seating

Landscape Berm

Log Jam

Tree Sculpture

Corral for loose pieces

Fallen Tree

Platform Seating

Forest Posts & Stumps

Understory Planting

Pea Gravel Pit

Landscape Berm

Tree Trunk Tables
Stump Stools

EWF Mound

EWF Surfacing

Crush & Run Gravel

Boulders - Large

Timber Edge

Tree Trunk Tables
Stump Stools

Understory Planting

Log Benches

Trees



MARVEL