

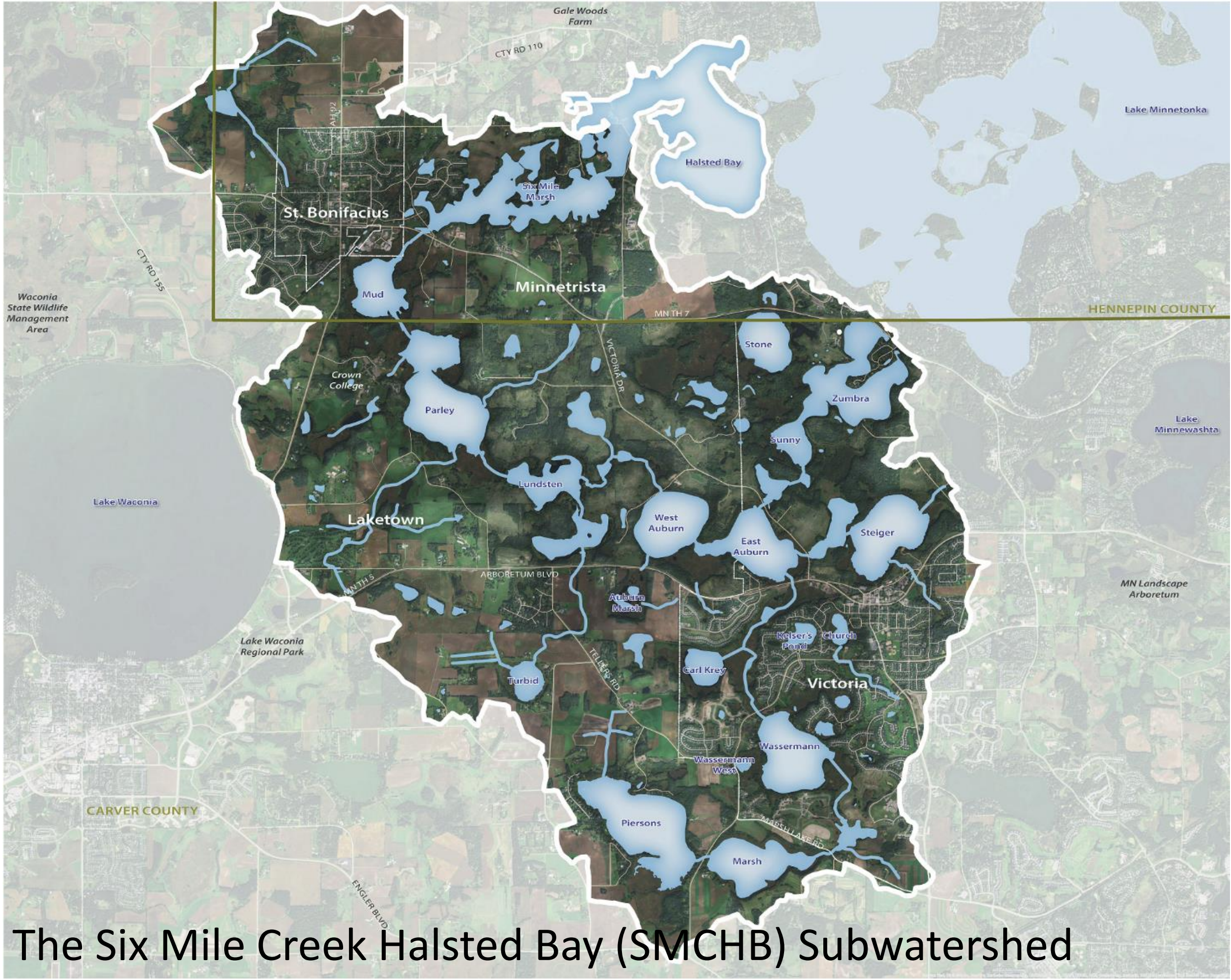
# SIX MILE CREEK-HALSTED BAY SUBWATERSHED PARTNERSHIP

## PARTNERING TO RESTORE THE WATERSHED’S HEADWATERS

The MCWD Board of Managers adopted the Six Mile Creek-Halsted Bay (SMCHB) subwatershed as a priority area because of its abundant natural resources, its location as the watershed’s headwaters, and rapid development within the area.

SMCHB is a highly interconnected natural system. The 27-square-mile area drains into Six Mile Creek through 17 lakes and hundreds of acres of wetlands before emptying into Halsted Bay – the most degraded bay on Lake Minnetonka. Issues facing this system include degraded wetlands, high carp density, and changing land use.

MCWD is working to achieve significant, lasting water resource improvements while integrating our work with community partners to support park and open space planning, economic development and growth, and preservation of community assets.

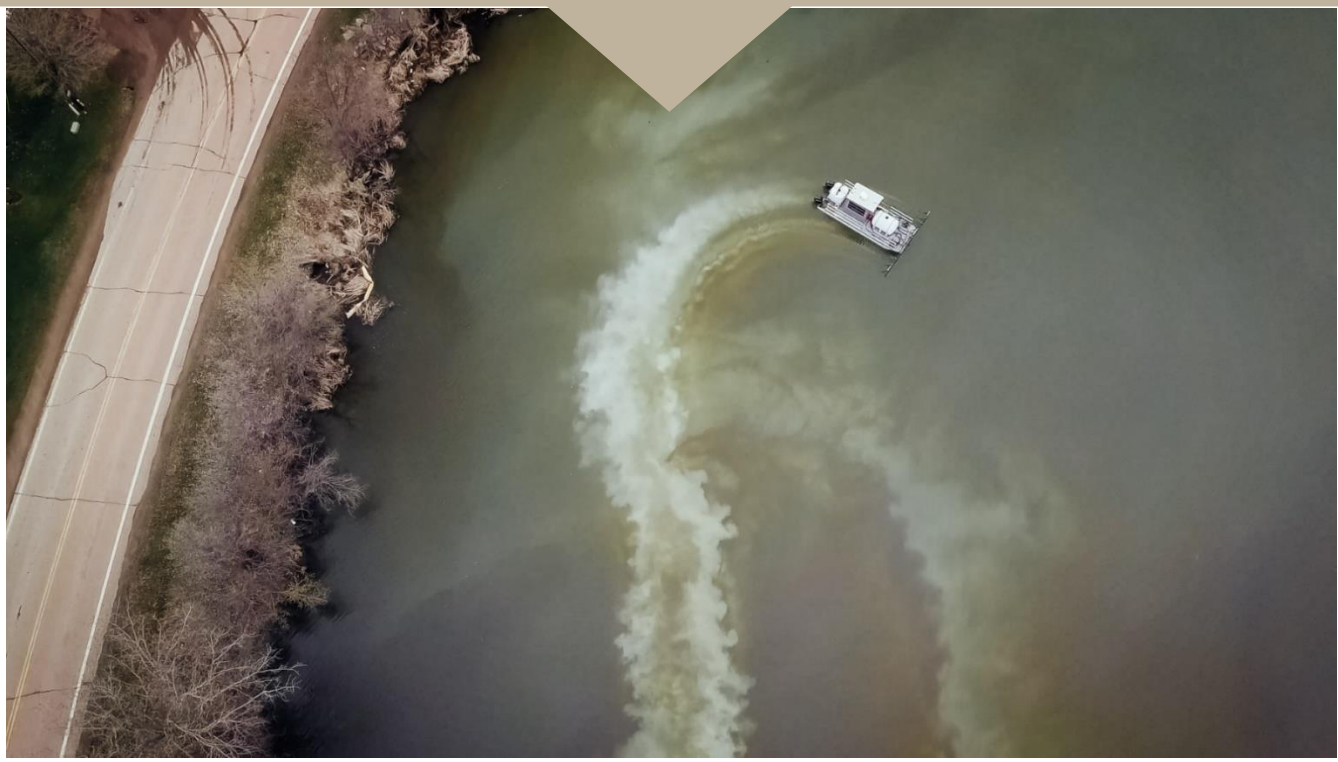


## WASSERMANN WEST ALUM TREATMENT

The six acre pond on the Wassermann Park Site is a primary contributor to nutrient pollution on Lake Wassermann.

MCWD has completed the first of two alum treatments on the pond, which will help to prevent ongoing nutrient pollution.

The treatment has resulted in an estimated 75 pound per year reduction of phosphorus into Lake Wassermann.



## SMCHB CARP MANAGEMENT PROGRAM

MCWD is leading the state’s largest and most comprehensive invasive common carp management program.

Common carp uproot plants and stir up lake bottoms, degrading habitat and promoting algae growth.

With funding from the Lessard Sams Outdoor Heritage Council, this program aims to permanently manage common carp to protect lake ecosystem across the SMCHB Subwatershed.



## EAST AUBURN STORMWATER PONDS

MCWD and the City of Victoria leveraged grant dollars to retrofit two stormwater ponds in downtown Victoria.

The ponds include stormwater filters to remove dissolved phosphorus, which is typically harder to treat.

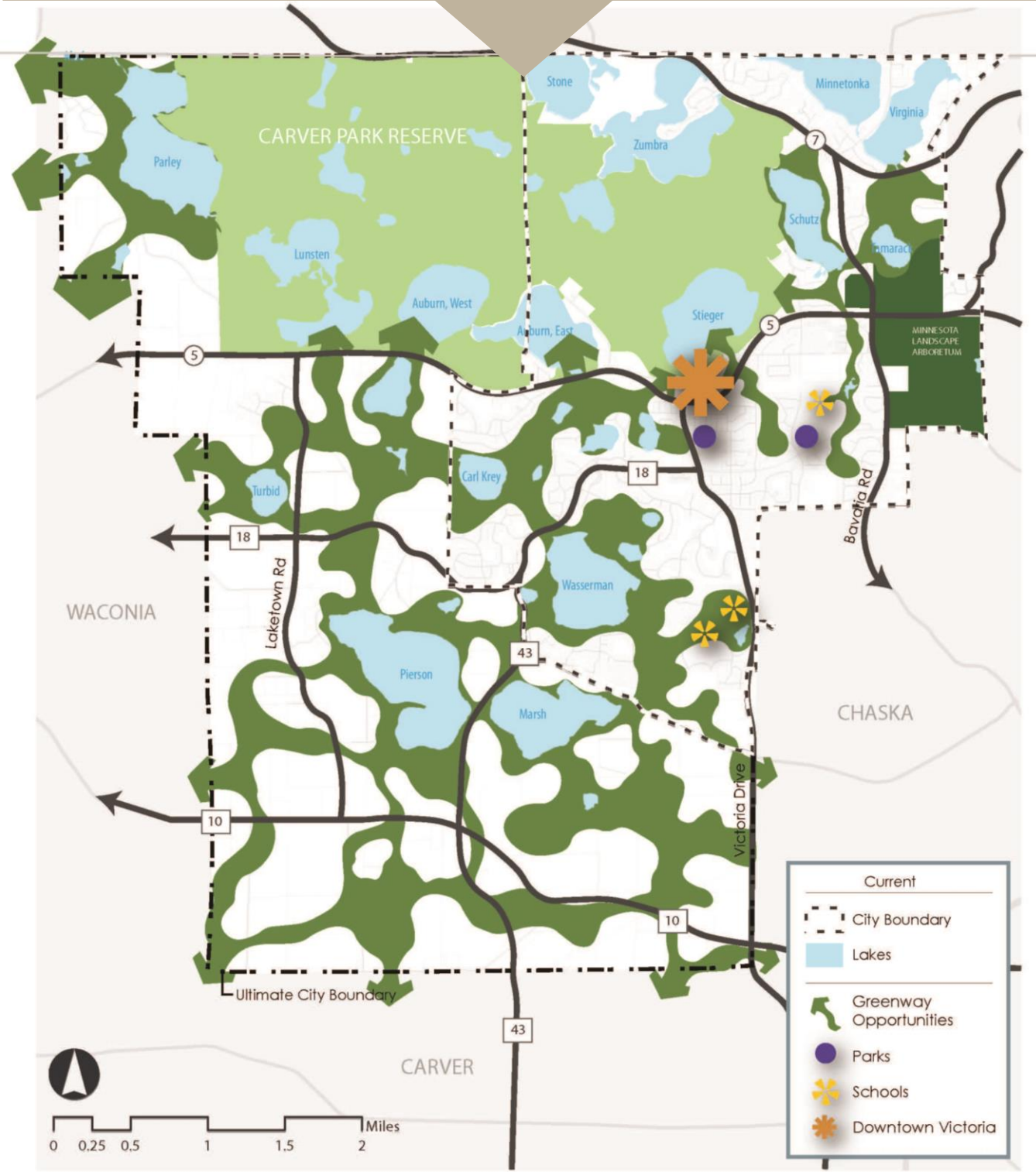
The project improves the treatment effectiveness of these ponds and facilitates new downtown development.

## VICTORIA CHAIN OF LAKES GREENWAY

The City’s 2040 Comprehensive Plan integrates natural resource protection, recreation planning, and development through a greenway corridor plan.

The greenway corridor will connect the City’s most prized assets – its lakes, parks, and trails – while supporting the sustainable growth of the City.

MCWD and the City will work together to coordinate plans and investments within the greenway to realize the shared vision of a Victoria Chain of Lakes.





# WASSERMANN LAKE PARK



- the clearing
- gathering space
- picnic tables
- green turf space
- loose parts
- nature play

boardwalk to island

wetland

WASSERMANN LAKE

natural path

wetland

natural path

- lake fire
- gathering space
- seating & fire pit

- lake plaza
- 8 tables
- glacial erratics
- planted rooms

entry court

entry mound

water quality  
demonstration  
gardens

prairie mound

car park  
(33)

trail to  
neighborhood

- shelter
- restrooms/utility room
- 8 tables

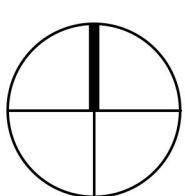
- nature play
- gross motor skills

restoration rooms  
& landforms

mowed  
prairie paths



# WASSERMANN LAKE PARK



park boundary

38

north island

- hilltop site
- gathering space, seating
- arbor
- vistas & viewing
- boulder outcrops

natural surface path  
-hiking/snowshoeing trail

wetland

wetland

boardwalk  
wetland crossing

dock/fishing pier

WASSERMANN LAKE

wetland

trail: south to the clearing

wetland





# NATURE PLAY

## FOREST CLIMBING FEATURES



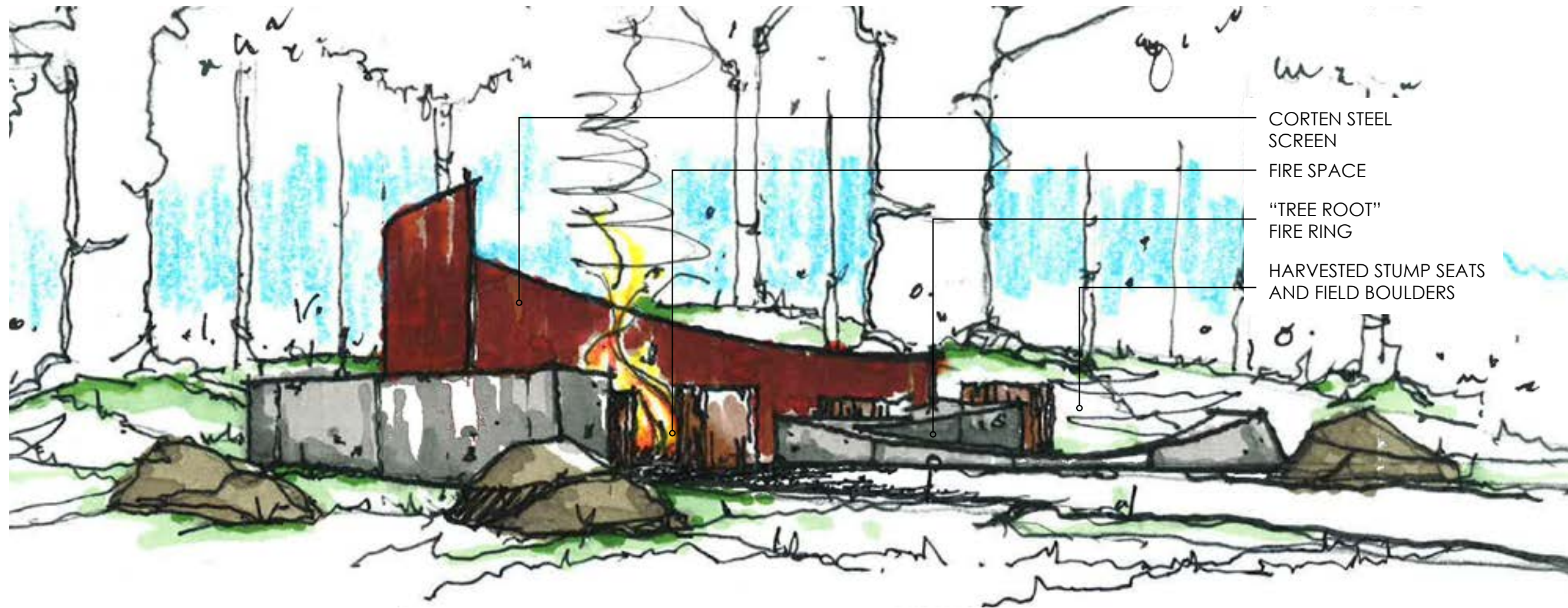
## “LOOSE PARTS” SHELTER MAKING MATERIALS





# SIGNITURE SPACES

## “LAKE FIRE” GATHERING SPACE

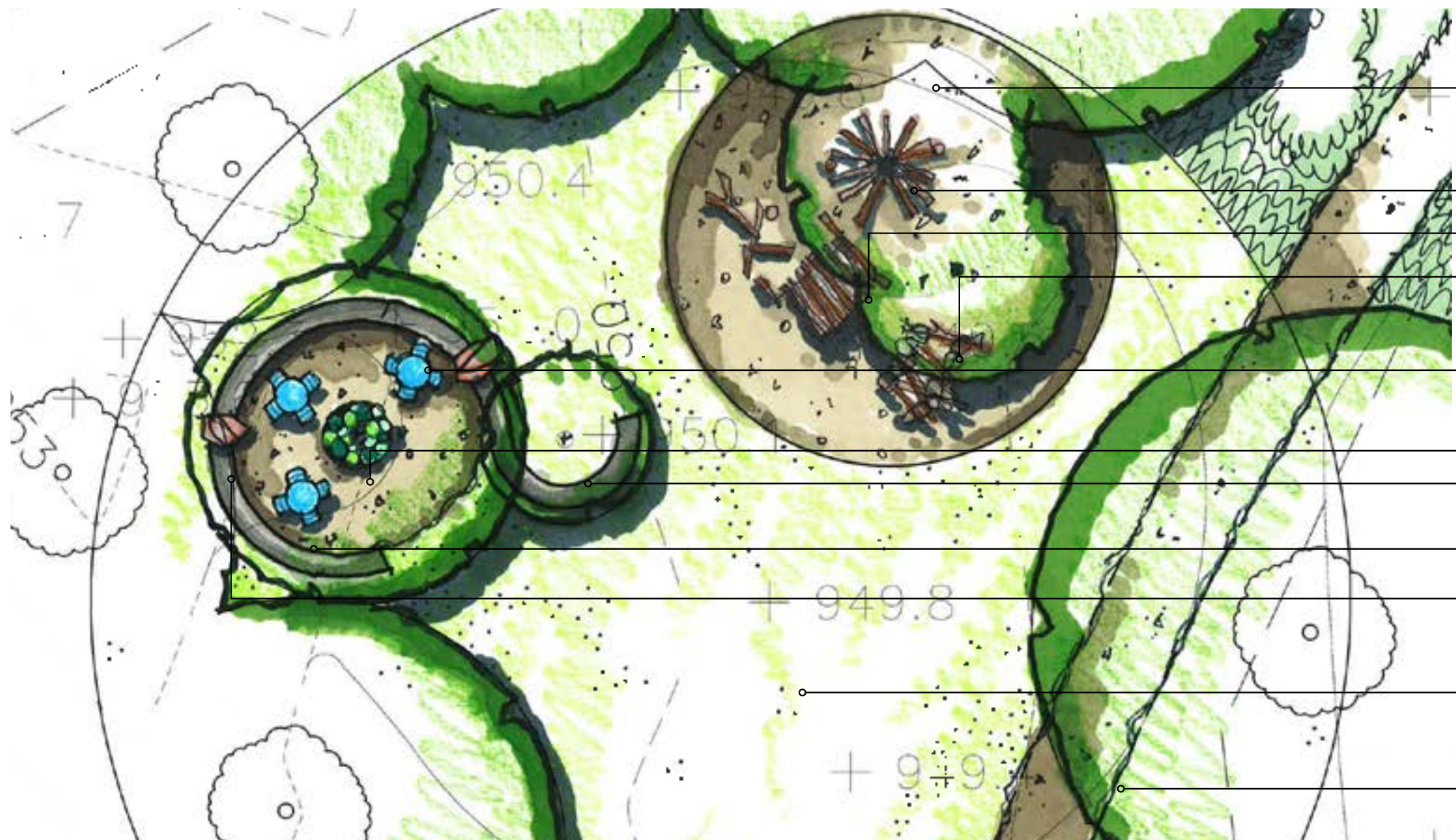


- CORTEN STEEL SCREEN
- FIRE SPACE
- "TREE ROOT" FIRE RING
- HARVESTED STUMP SEATS AND FIELD BOULDERS



“LAKE FIRE” GATHERING SPACE

## “THE CLEARING” PICNIC & NATURE PLAY SPACES



- PLAY CIRCLE WITH "LOOSE PARTS" HARVESTED ON-SITE
- FORT BUILDING
- LEAN-TO BOULDER RUN
- CONCRETE OR CORDWOOD "TREE ROOT" WALL
- SIGNITURE CANOPY TREE
- SIGNITURE TREE
- PICNIC SEATING
- "GLACIAL ERRATIC" BOULDERS
- "THE CLEARING" TURF FIELD
- NATURAL SURFACE TRAIL (TRAIL TO BOARDWALK)



“THE CLEARING” PICNIC SPACE

## ISLAND GATHERING SPACE



- TIMBER ARBOR
- SEATING
- CROSS-CUT TREE TABLE HARVESTED ON-SITE
- CONCRETE OR CORDWOOD "TREE ROOT" WALL
- SIGNITURE TREE
- "GLACIAL ERRATIC" BOULDERS
- NATURAL SURFACE TRAIL APPROACH



# LANDSCAPE RESTORATION

## A - Prairie - Driveway/Rainwater Treatment/Knoll:

*Zone Goals:*

- Improve infiltration
- Restore Diverse prairie/savanna plant community that supports bird and pollinator habitat
- Remove all invasive species in Uplands up to 95%

*Restoration Actions:*

- Remove all herbaceous vegetation with two-three herbicide treatments
- Burn all vegetation material off site prior to grading work and other activities
- Seed and plant the restoration area with diverse savanna/mesic prairie seed mix
- Enhance wetland buffers by removing reed canary in area around rainwater treatment
- Provide native shrub/tree screen for homes west of restoration area

## B - Oak Savanna - Nature Play/Shelter/Bluff/The Clearing:

*Zone Goals:*

- Open viewshed over the lake
- Enhance understory light percentages to support diverse savanna plant community
- Reuse materials in nature play (seating, fort building, Mountain climb etc)

*Restoration Actions:*

- Remove 100% boxelder, buckthorn, honeysuckle, ash
- Remove 90% cherry, red cedar, basswood <12-15" DBH
- Remove/Thin 40% Oak trees <10" DBH as directed by LA/Landscape Ecologist

## C - Wet Meadow Edges:

*Zone Goals:*

- Open understory plant communities to available light
- Remove all invasive non-native and native trees to enhance establishment of mesic wet meadow up to cattails
- Restore native plant community to more diverse habitat that will support pollinator habitat (rusty patch bumble-bee etc), increase infiltration and provide a buffer along the shoreline that will help with shoreline stabilization and reduce erosion

*Restoration Actions:*

- Remove all boxelder and ash trees-all class sizes
- Remove 50% hackberry, cherry, basswood under 12-15" DBH
- Trim/Prune/Thin oaks and deadwood (winter only/Jan/Feb)
- Remove all buckthorn (winter cut large material, foliar treatment/forestry mow re-sprouts)
- Reseed with mesic meadow seed mix

## D - Cutbank Stabiliation - Lower Stream:

*Zone Goals:*

- Remove select trees to support vegetative growth and access for restoration practices
- Enhance understory light percentages to support diverse savanna plant community
- Reduce sediment mobility by stabilizing bank 15' each side of creek where cutbanks are present
- Establish stabilizing vegetation in area impacted by stabilization
- Create Screen towards homes on east side (willow, dogwood, highbush etc)

*Restoration Actions:*

- Remove 100% boxelder, buckthorn, honeysuckle, ash within 15' of channel on each side
- Regrade and stabilize where cutbank erosion is visible
- Create one backwater pool for infiltration and sediment reduction
- Add three wood/rock vanes to control channel migration

## E - Woodland Buffer:

*Zone Goals:*

- Manage invasive species
- Retain an adequate woodland buffer to neighboring parcels

*Restoration Actions:*

- Manage invasive buckthorn and other species as needed

## F - Oak Savanna - N. Peninsula/Island:

*Zone Goals:*

- Open understory plant communities to available light
- Remove all invasive non-native and native trees to enhance establishment of understory savanna
- Restore native plant community to more diverse habitat that will support pollinator habitat (rusty patch bumble-bee etc), increase infiltration and provide a buffer along the shoreline that will help with shoreline stabilization and reduce erosion

*Restoration Actions:*

- Remove all boxelder and ash trees-all class sizes
- Remove 50% hackberry, cherry, basswood under 12-15" DBH
- Trim/Prune oaks and deadwood (winter only/Jan/Feb)
- Remove all buckthorn from north side (winter cut large material, foliar treatment/forestry mow re-sprouts)
- 50% reduction in cattails in select location along potential boardwalk and trail entry locations





# SHELTER

