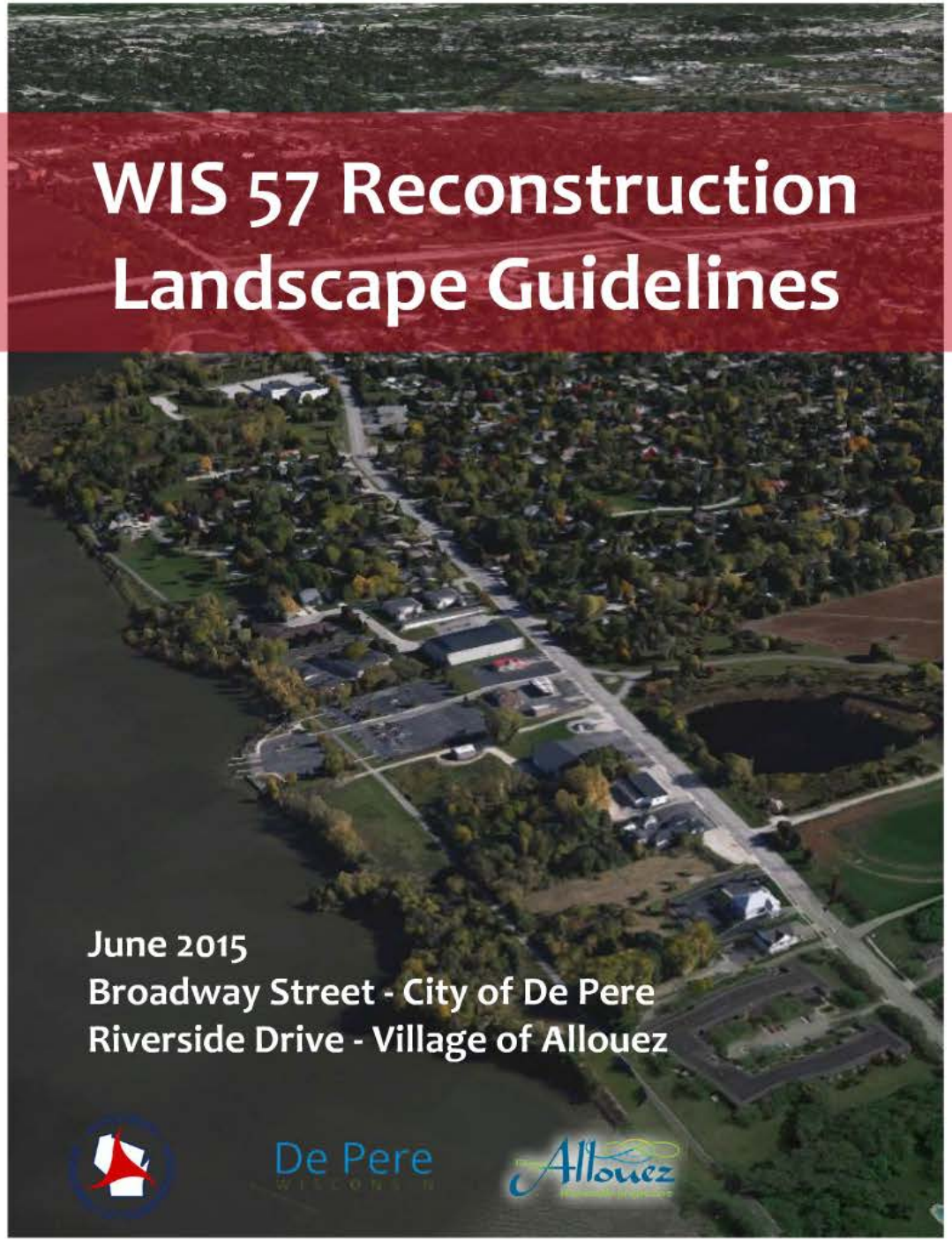
WIS 57 Reconstruction Landscape Guidelines



June 2015

Broadway Street - City of De Pere

Riverside Drive - Village of Allouez

De Pere

Allouez

Project Location

The project is located on Wisconsin State highway (WIS) 57 between its intersection with Randall Avenue in the City of De Pere and the north village limit of the Allouez, Brown County. WIS 57 is classified as an urban principal arterial within the project limits. The total project length is 3.4 miles.

The project includes two project IDs (4085-39-00 in De Pere and 4085-38-00 in Allouez) but is evaluated as one corridor. Both projects are listed as reconstruction projects in the 2015 – 2018 Statewide Transportation Improvement Program (STIP) and Surface Transportation Program (STP) projects in the 2014-2018 Transportation Improvement Program (TIP) for the Green Bay Urbanized Area Metropolitan Planning Organization (MPO).

Community Sensitive Solutions

It is WisDOT policy to use a Community Sensitive Solutions (CSS) approach to enhance excellence in transportation project development. CSS is the art of creating and implementing public works projects that are pleasing to both the users and the partner communities while maintaining the safe and efficient function of the facility, in this case WIS 57. The goal of CSS is to leave a lasting public works legacy that will stand the test of time. In this way, WisDOT and the communities of Allouez and De Pere have come together to create a package of CSS enhancements that complement the areas natural, social, and cultural values.

Purpose of this Document

This document provides a guideline for the implementation of Community Sensitive Solutions on the WIS 57 corridor within the City of De Pere and Village of Allouez. It contains information where the application of CSS elements like stamped pavement or ornamental trees is appropriate. It also provides texture, color, and style for hardscaping an structures, landscape typologies, and lighting.

This document was prepared through a series of collaborative meetings with community stakeholders and WisDOT and consultant staff.

Project Corridor

The 3+ mile WIS 57 project corridor is a unique combination of residential, office, and commercial uses, parkland and open space, cemeteries, and historically significant structures and properties.

Specifically, this corridor is capped on each end by National Register historic neighborhoods, contains two historically significant neighborhoods and two historically significant properties, a Historic State Prison, a State Park, and two cemeteries. Each of these resources has an influence on the application of CSS.

Accommodating both transient corridor users and those that call De Pere and Allouez home presents a challenge for this corridor because CSS applications must maintain corridor safety and efficiency while harmonizing the aesthetic character of the surrounding communities. In this regard, the placement of lighting, trees and other landscaping, and the application of hardscape patterns is intended to strike a balance between long-term community goals, environmental sustainability, and transportation demand.

The following eight graphics provide an overview of WIS 57 from south (left) to north (right). Graphic 1 begins on the project's far southern end in the City of De Pere. Graphic 8 ends at the northern project terminus in the Village of Allouez. CSS elements are coded by color or symbol and extend for the length of the project. A graphic key is also provided on the bottom of the next several pages for orientation.

application of CSD.

2

Riverside Dr.
Rose Lawn Blvd.
W. Briar Ln.
Sunset Circle
St. Francis Dr.
Arrowhead Dr.
Brevoort Ln.
St. Mary's Blvd.
Stambaugh Rd.
COLORED CONCRETE
SIDEWALK
MEDIAN
WETLAND/SURFACE WATER
CEMETERY
LIGHT POLE
GRASS / PLANTING BED
HISTORIC SIGNIFICANCE
HAZARDOUS MATERIALS SITE
PARKS AND RECREATION
ORNAMENTAL TREE
DECIDUOUS TREE

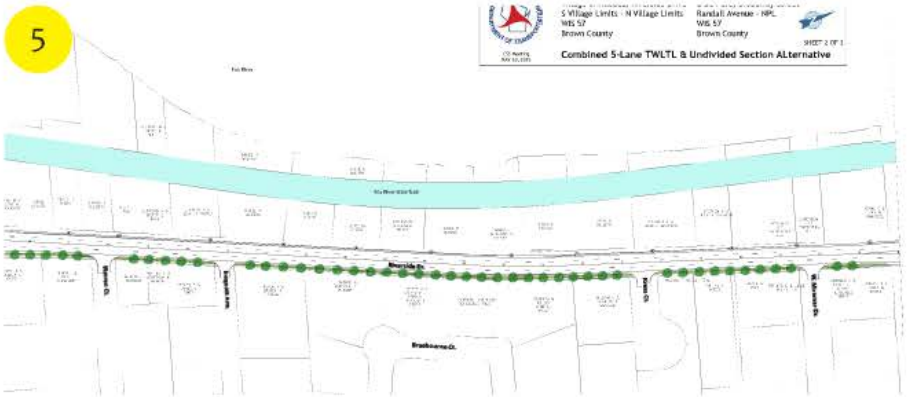
Lazarre Avenue
Jaquez Avenue
St. Joseph Street
Grignon Street

3

WIS 57
Brown County
WIS 57
Brown County
SHEET 1 OF 1
Combined 5-Lane TWLTL & Undivided Section ALternative

4

5


S Village Limits - N Village Limits
WIS 57
Brown County
Rankall Avenue - NPL
WIS 57
Brown County
SHEET 2 OF 1
Combined 5-Lane TWLTL & Undivided Section ALternative

3
4

5

3

WIS 57
Brown County

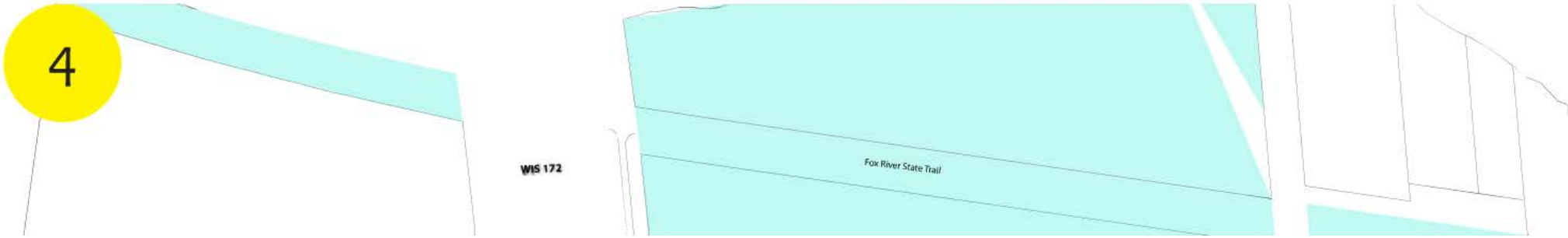
WIS 57
Brown County

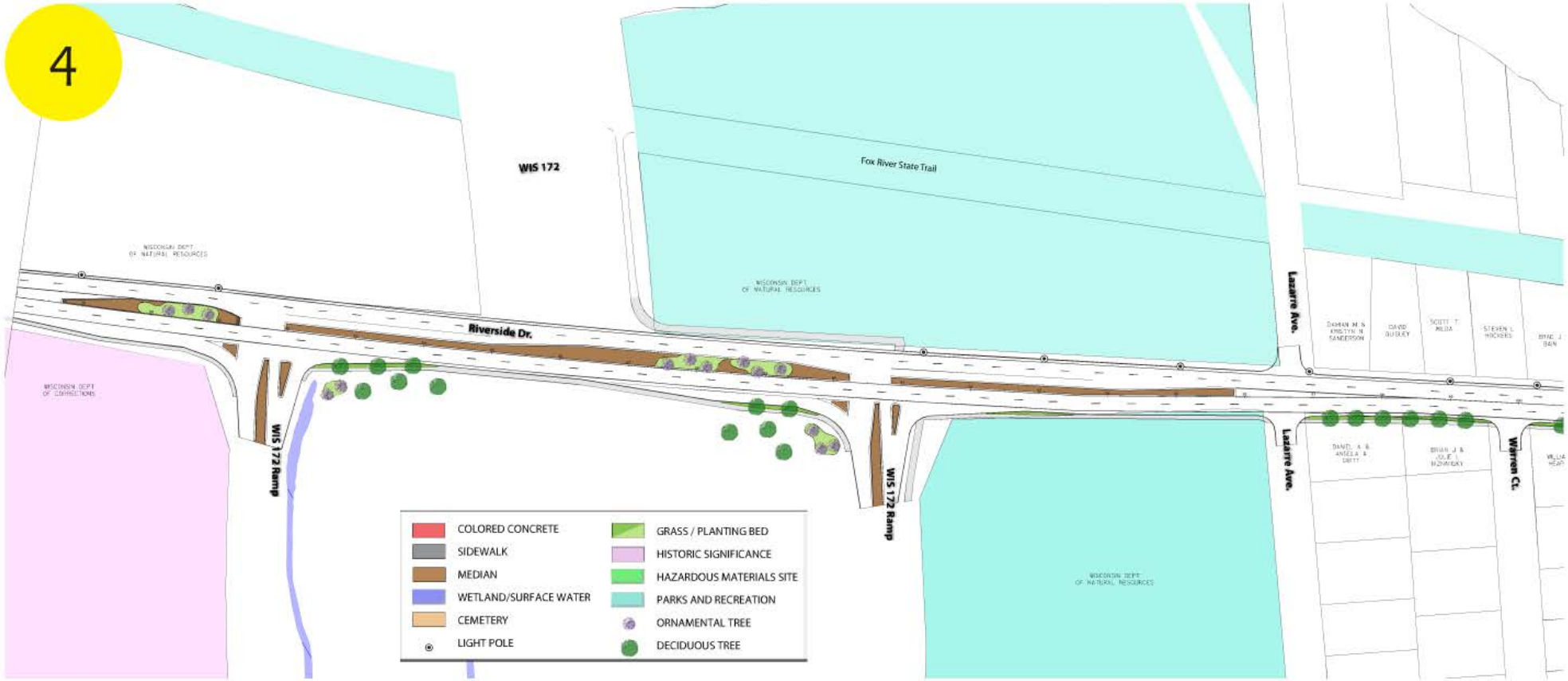
SHEET 1 OF 3

CSS Meeting
MAY 20, 2015

Combined 5-Lane TWLTL & Undivided Section ALternative

4




4
WIS 172
Fox River State Trail
WISCONSIN DEPT OF NATURAL RESOURCES
WISCONSIN DEPT OF CORRECTIONS
Riverside Dr.
Lazarre Ave.
WIS 172 Ramp
Warren Ct.
COLORED CONCRETE
SIDEWALK
MEDIAN
WETLAND/SURFACE WATER
CEMETERY
LIGHT POLE
GRASS / PLANTING BED
HISTORIC SIGNIFICANCE
HAZARDOUS MATERIALS SITE
PARKS AND RECREATION
ORNAMENTAL TREE
DECIDUOUS TREE

Sunset Circle
Brevport Lane
Stanbaugh Road
Arrowhead Drive
St. Mary's Boulevard
3
4
WIS 172

5

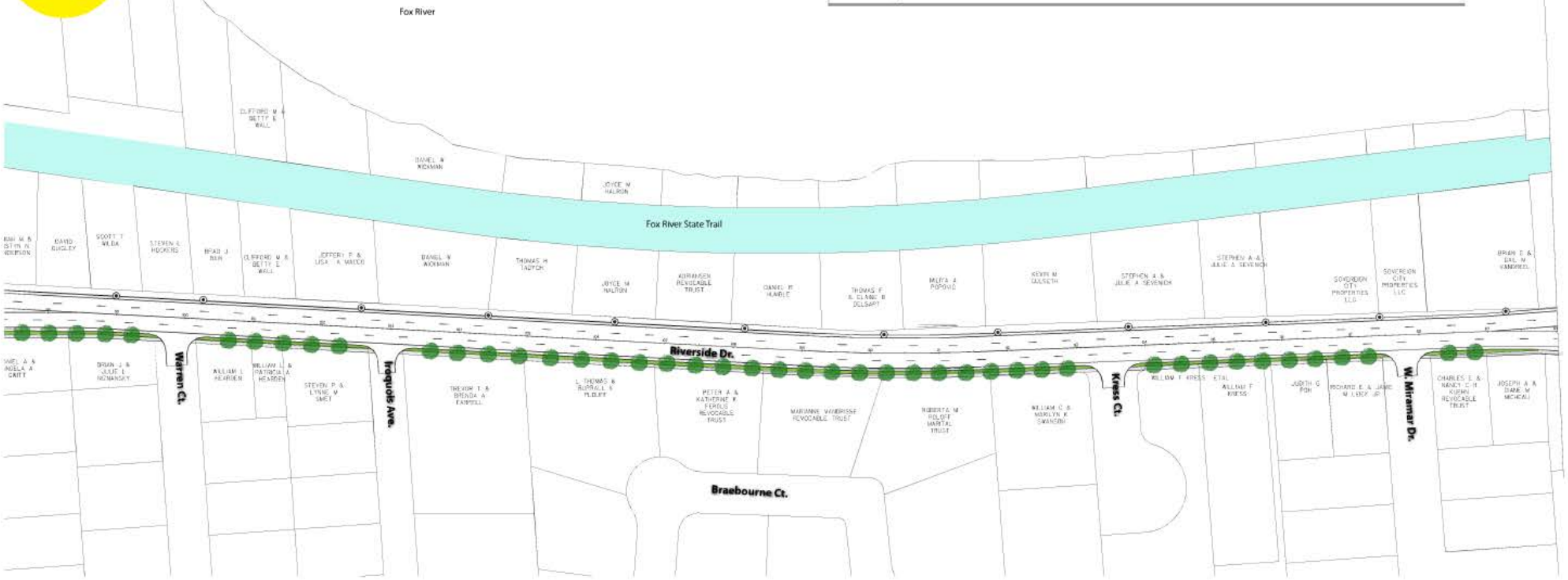
S Village Limits - N Village Limits
WIS 57
Brown County

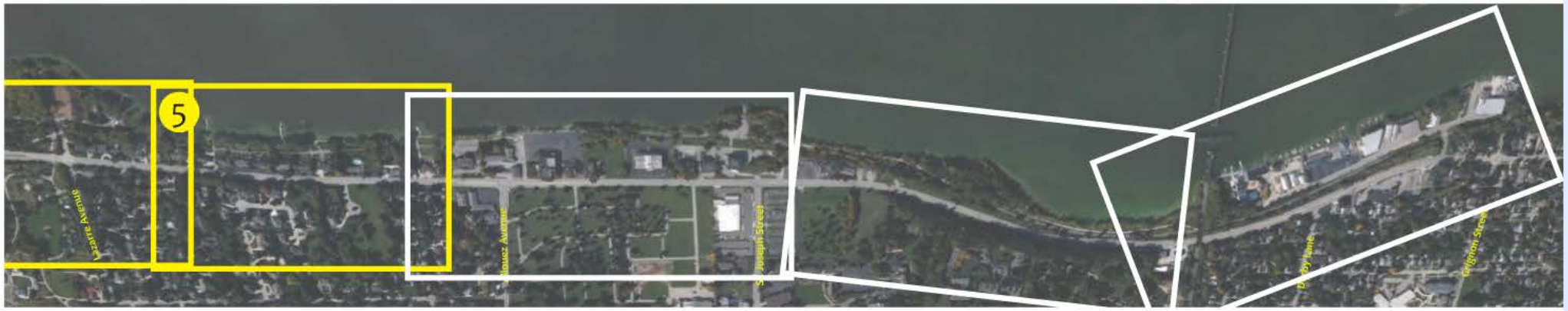
Randall Avenue - NPL
WIS 57
Brown County

SHEET 2 OF 3

CSS Meeting
MAY 20, 2015

Combined 5-Lane TWLTL & Undivided Section ALternative





6

7

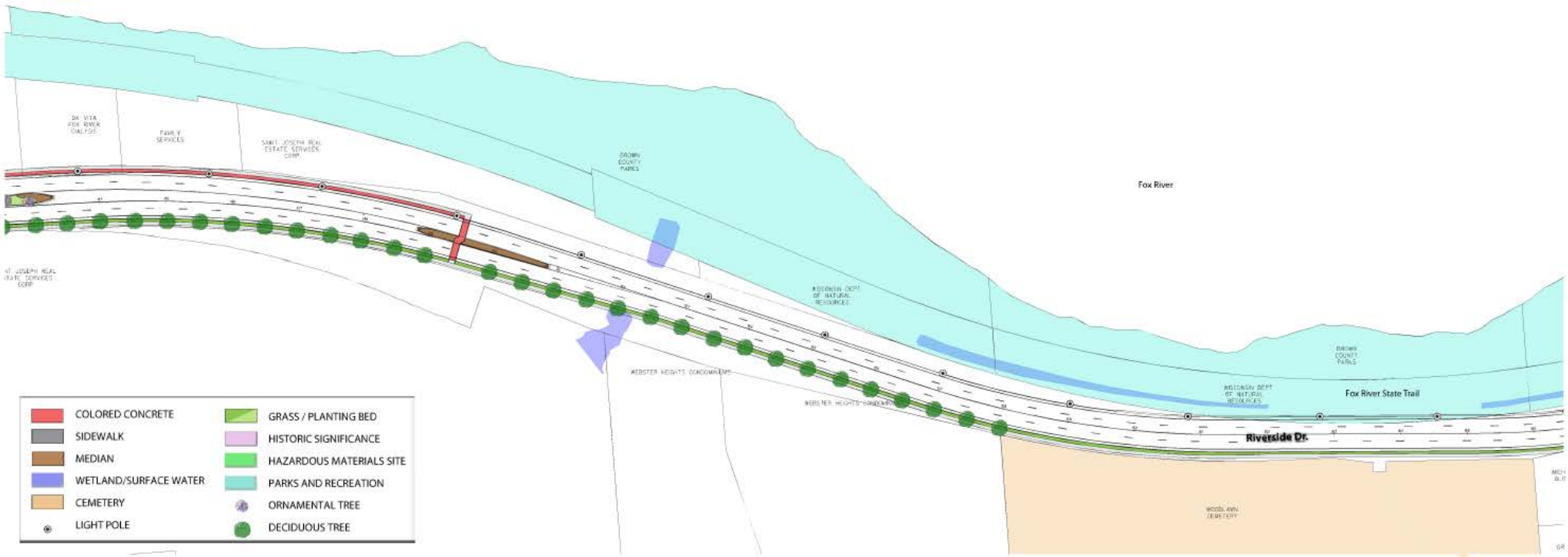
COLORED CONCRETE
SIDEWALK
CURBS
WETLAND/SURFACE WATER
CROSSWALK
LIGHT POLE
GRASS / PLANTING BED
HISTORIC SIGNIFICANCE
HAZARDOUS MATERIALS SITE
PARKS AND RECREATION
ORNAMENTAL TREE
DECIDUOUS TREE

8

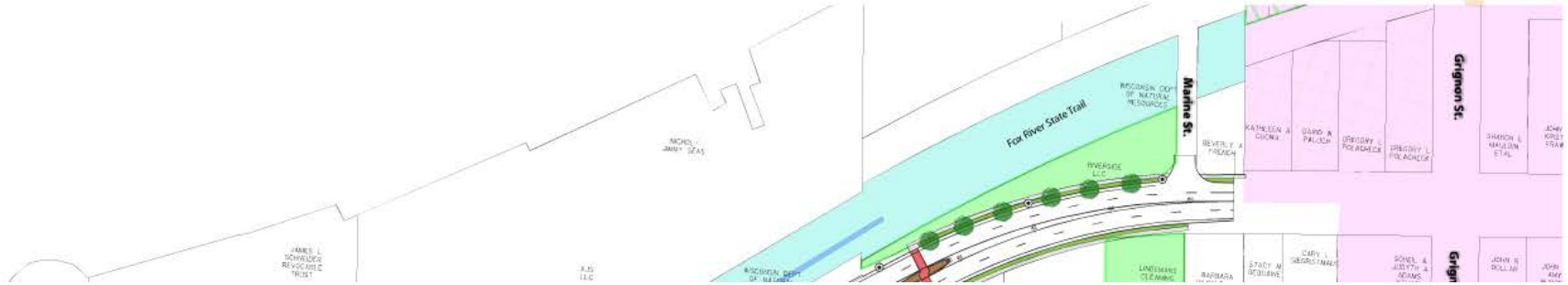
6
7
8

6
Fox River
Fox River State Trail
Riverside Dr.
W. Allouez Ave.
W. St. Joseph St.
Little Rd.
MARINE HOTEL
FOX TRAIL LLC
TRADITIONS
SCHENCK BUSINESS
TRAIL MICROBIBULY TOURS
GLENN M HUSON ETAL
EILEEN T. WINGET REVOCABLE TRUST ETAL
SOMERVILLE, INC
PLANNING MANAGEMENT ASSOCIATES
BURNHAM RICHARDS ADVERTISING
EVE'S COCKTAILS
SODI
AVENUE 90
FORSITE
ALF LONGAN LAW
WAGEN ALLERGY CLINIC
THRIVENT FINANCIAL
GERALD & ELRITA FICTUM
GREEN BAY DIOCESE CEMETERY CORP
GREEN BAY DIOCESE CEMETERY CORP
GREEN BAY DIOCESE CEMETERY CORP
RIVERSIDE MEDICAL LLC
BRENNAN CERTIFIED USED VEHICLES
SAINT JOSEPH REA ESTATE SERVICES CORP

7


Fox River
Fox River State Trail
Riverside Dr.
COLORED CONCRETE
SIDEWALK
MEDIAN
WETLAND/SURFACE WATER
CEMETERY
LIGHT POLE
GRASS / PLANTING BED
HISTORIC SIGNIFICANCE
HAZARDOUS MATERIALS SITE
PARKS AND RECREATION
ORNAMENTAL TREE
DECIDUOUS TREE

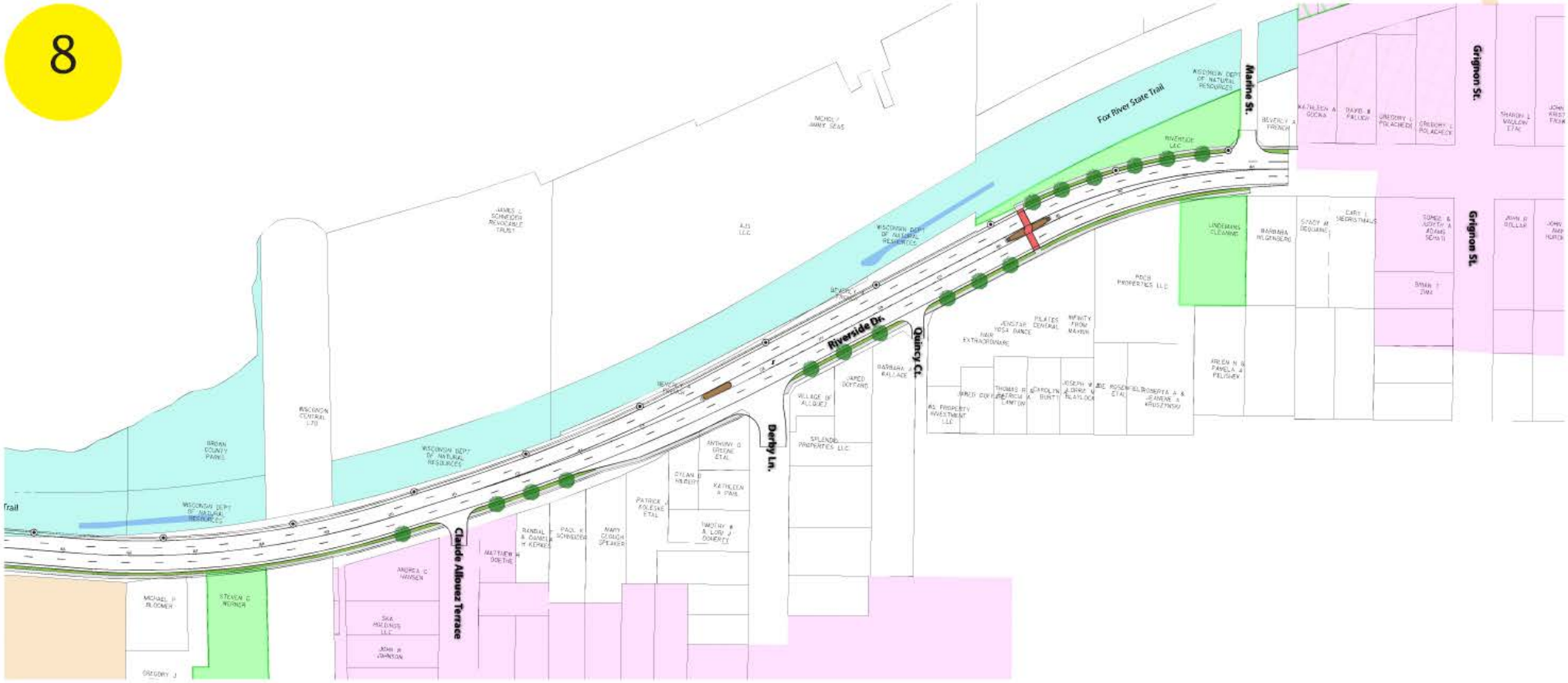
8


Fox River State Trail
Marine St.
Grignon St.

LIGHT POLE

DECIDUOUS TREE

8



Plant Schedule

Landscaping is an important component of any CSS project. In De Pere and Allouez, landscaping is even more significant as each community boasts a strong urban forestry program and each has been named a Tree City USA award winner by the National Arbor Day Foundation for more than a decade.

The following plant list is contains trees, perennials, shrubs, and grasses both approved by each community's forester and the CSS stakeholder committee. Some selections may not be used on WIS 57 but are included on the list for further refinement as design progresses.

Scientific Name	Mature Height	Common Name
Deciduous Trees		
Ginkgo bilboa 'Princeton Sentry'	60'	Ginkgo, Princeton Sentry
Corylus columa	40'-50'	Turkish Filbert
Acer x freemanii 'Sienna'	50'	Maple, Freeman 'Sienna Glen'
Acer miyabei	40'-50'	Maple, State Street
Gleditsia triacanthos f. inermis 'Skycole' Skyline	60'	Honey Locust, Skyline
Ulmus 'Morton' Accolade	60'	Elm, Accolade
Ornamental Trees		
Pyrus calleryana 'Autumn Blaze'	20'	Autumn Blaze Callery Pear
Malus transitoria 'Schmidtcutleaf'	20'	Crabapple, Golden Raindrops
Malus 'Prairiefire'	15-20'	Crabapple, Prairiefire
Malus 'Spring Snow'	25'	Crabapple, Spring Snow
Syringa reticulata 'Ivory Silk'	20-25'	Lilac, Ivory Silk Tree
Perennials		
Hemerocallis spp.	1'-2'	Daylily
Aster novi-belgii 'Professor Kippenburg'	1'-2'	Aster, Professor Kippenburg Dwarf
Sedum Album Chloroticum 'Baby Tears'	5"	Sedum Album 'Baby Tears'
Rubeckia hirta	2'-3'	Black-eyed Susan
Echinacea purpurea 'Bright Star'	3'-4'	Bright Star Purple Coneflower
Achillea spp.	2'-4'	Yarrow
Shrubs		
Spiraea nipponica 'Snowmound'	3'-4'	Snowmound spirea
Spiraea x bumalada 'Goldflame'	2'-3'	Goldflame Spiraea
Cornus sericea	7'-8'	Red Osier Dogwood
Cornus pumila	3'	Dwarf Red Tipped Dogwood
Berberis thunbergii atropurpurea 'Nana'	3'	Crimson Pygmy Barberry
Pinus mugo var. pumilio	3'-5'	Dwarf Mugo Pine
Grasses		
Schizachyrium scoparium	2'-4'	Little bluestem
Bouteloua cutipendula	2'-3'	Side-oats gramma
Sporobolus heterolepis	2'-3'	Prairie dropseed
Panicum virgatum	5'	Switchgrass
Panicum virgatum	3'-4'	Karl Foerster Feather Reed Grass
Miscanthus sinensis 'Yaku Jima'	4'-5'	Dwarf Maiden Grass

Deciduous Trees

Deciduous Tree spacing will vary depending on the use along WIS 57. Where residential uses abut WIS 57, deciduous trees will be spaced at 40 feet on center. In non-residential areas, deciduous trees will be spaced at 60 feet on center. The intent of this practice is to influence the speed of drivers along the corridor. By providing a roadway edge condition which is more intense in residential areas (less spacing) the cognitive effect of more friction is realized which will lead to driver awareness, and safer conditions for all users of the roadway. An example is seen below.

Turkish Filbert

Ginkgo 'Princeton Sentry'

'Skyline' Honey Locust

Deciduous Trees

'State Street' Maple

Freeman Maple 'Sienna Glen'

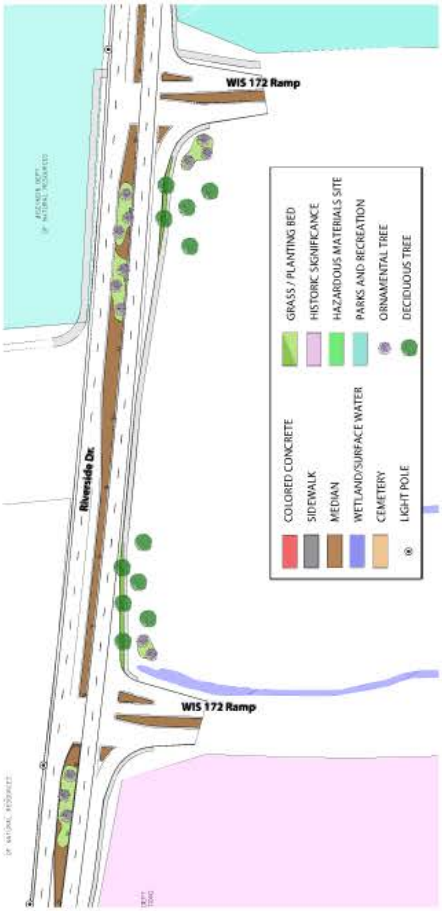
Elm 'Accolade'

Elm 'Accolade'

Ornamental Trees

Ornamental trees are smaller and more decorative trees that can be used in planting beds to complement shrubs, perennials, or annuals, or they can be used where planting area width may be limited. Ornamental trees provide year round interest with unique shapes, spring flowers, fruits, and fall colors. Some varieties provide berries or pods and good nesting habitat for wildlife because of their dense, protective foliage.

Along WIS 57, ornamental trees will be best applied in roadway medians, planting beds, and adjacent to some residential areas like Stambaugh Road. The intersection of WIS 57 and WIS 172 will be another application area. Ornamental trees may also be useful for highlighting a gateway and may complement community entrance signs.



Autumn Blaze Callery Pear

Lilac, Ivory Silk Tree

Ornamental Trees

Among the most preferred ornamental trees for application on WIS 57 are Spring Snow Crabapple and Prairiefire Crabapple.

Spring Snow Crabapple produces a showy display of pure while flowers without the concern of fruit.

The Prairiefire Crabapple provides a beautiful accent color for landscapes. Its persistent, dark-red fruit is a favorite among birds.

Crabapple, Spring Snow

Crabapple, Golden Raindrops

Crabapple, Prairiefire

Perennials

Perennials are seasonal plants which live for several years. Some perennials, like the aster and daylily provide more flowering then yarrow or groundcovers like sedum. All perennials are particularly favored by insects and bees which are attracted by their bright colors and pollen.

In application on WIS 57, perennials are preferred over the use of shrubs. Perennials may be used in medians or in combination with annuals in planters placed in medians near WIS 172.

'Professor Kippenburg' Aster

Black Eyed Susan

Yarrow

Yarrow

Bright Star Purple Coneflower

Sedum Album 'Baby Tears'

Daylily

Daylily in median with ornamental tree

Shrubs

Shrubs are small to medium sized woody plants distinguished from trees by their multiple stems and shorter height. Some shrubs provide spring and fall color, while others like dogwood and dwarf pine provide foliage or accent year round.

The use of shrubs will be limited on WIS 57 and typically used only where more appropriate than perennials, such as in shaded areas or areas expected to receive little natural moisture.

Crimson Pygmy Barberry

Snowmound Spirea

Dwarf Mugo Pine

Goldflame Spirea

Red Osier / Dwarf Red Tipped Dogwood

Grasses

Grasses are commonly used to provide texture and movement in planting beds and can be used for erosion control and remediation as grasses are more adaptable to growth in poor soils than most plants. Like some shrubs, grasses provide year round interest, staying hearty in late fall and winter months.

On WIS 57, grasses will be used in planting beds and medians to provide cover, depth, and fullness in combination with perennials and ornamental trees. The combination of grasses can also provide a dynamic mix of textures, adding visual interest and neutral colors to colorful perennials.

Prairie dropseed

Little Bluestem

Side-oats gramma

Karl Forester Feather Reed Grass

Switchgrass

Dwarf Maiden Grass

Stamped Finish - Medians

Medians along WIS 57 will utilize a stamped finish of either brick or stone pattern. These options are shown at right. The first photo of a brick pattern shows a buff color. The second, stone pattern, is a cream brown color. Median colors will correspond with the finish color of sidewalks, as shown on the following page.

Below, a red brushed finish is illustrated. This red finish is the color to be utilized on crosswalks. The brush finish illustrated here will be applied to sidewalk areas as described on the following page.

Brick Stamped Pattern

Brushed Finish

Stone Stamped Pattern

Finish Color

The finish colors to be utilized on sidewalks which exceed 5 feet include either Medium Tan, Gray Green, or Dawn Mist. This will be a brushed finish (shown on the previous page) which differs from the stamped finish used on the medians.

The Red color, shown below, is the color to be used on crosswalks.

Medium Tan #33446

Gray Green #30372

Red #31136

Dawn Mist (Grayish Brown) #36424

Structure Pattern

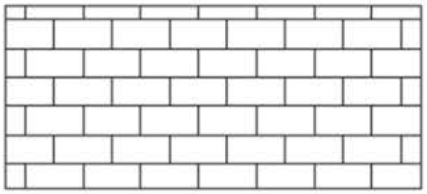
The preferred pattern for structures will either be a Brick Pattern (found on US 41 elsewhere in Brown County) or a New England Drystack (similar to nearby Allouez Avenue over the East River).

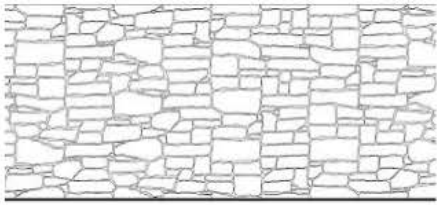
The Brick Pattern and color palette is shown below while the New England Drystack pattern is shown at right.

Brick Pattern

New England Drystack

Brick Pattern Color Palette





Conceptual application of the Brick Pattern on WIS 57

Conceptual application of the Dry Stack Pattern on WIS 57

Lighting

Standard lighting with black poles and LED lighting will be used throughout the project.

Standard light poles with LED lights