

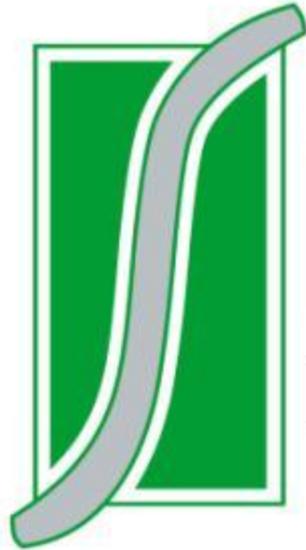
IL ROUTE 53/120

Blue Ribbon Advisory Council

Environment & Sustainability Working Group Meeting March 19, 2012

Lake County Department of Transportation





IL ROUTE 53/120

Blue Ribbon Advisory Council

CORRIDOR WALK

Field Meeting – March 6th

Attendees

- Mike Sands, Environmental Working Group Chair
- Rocco Zuccherro, Tollway
- George Ranney, Committee Co-Chair
- Jesse Elam, CMAP
- Brian Smith, AECOM
- Mike Warner, Lake County Stormwater Management
- Jim Novak, Huff and Huff
- Steve Apfelbaum, AES, Inc
- Cole Clayton, AES, Inc.

Evaluating Low-impact Options

Sites Visited

- Route 53/120 east bypass---Prairie crossing farm, Almond road, Routes 137 rail line / 45 underpasses
- Northbrook sports club review of two optional routings
- Mundelein residential neighborhood corridor locations
- Long Grove—Surrey Marsh alignment options
- Route 22, review of interchange options.

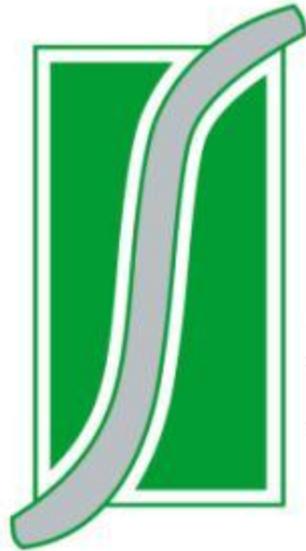


Almond Marsh



Surrey Marsh





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CORRIDOR HOT SPOTS

Figure 1A. Environmental Roadway Treatments, Conservation protection and 10 restoration lands, Stormwater Management Polishing Areas (SMPA's).

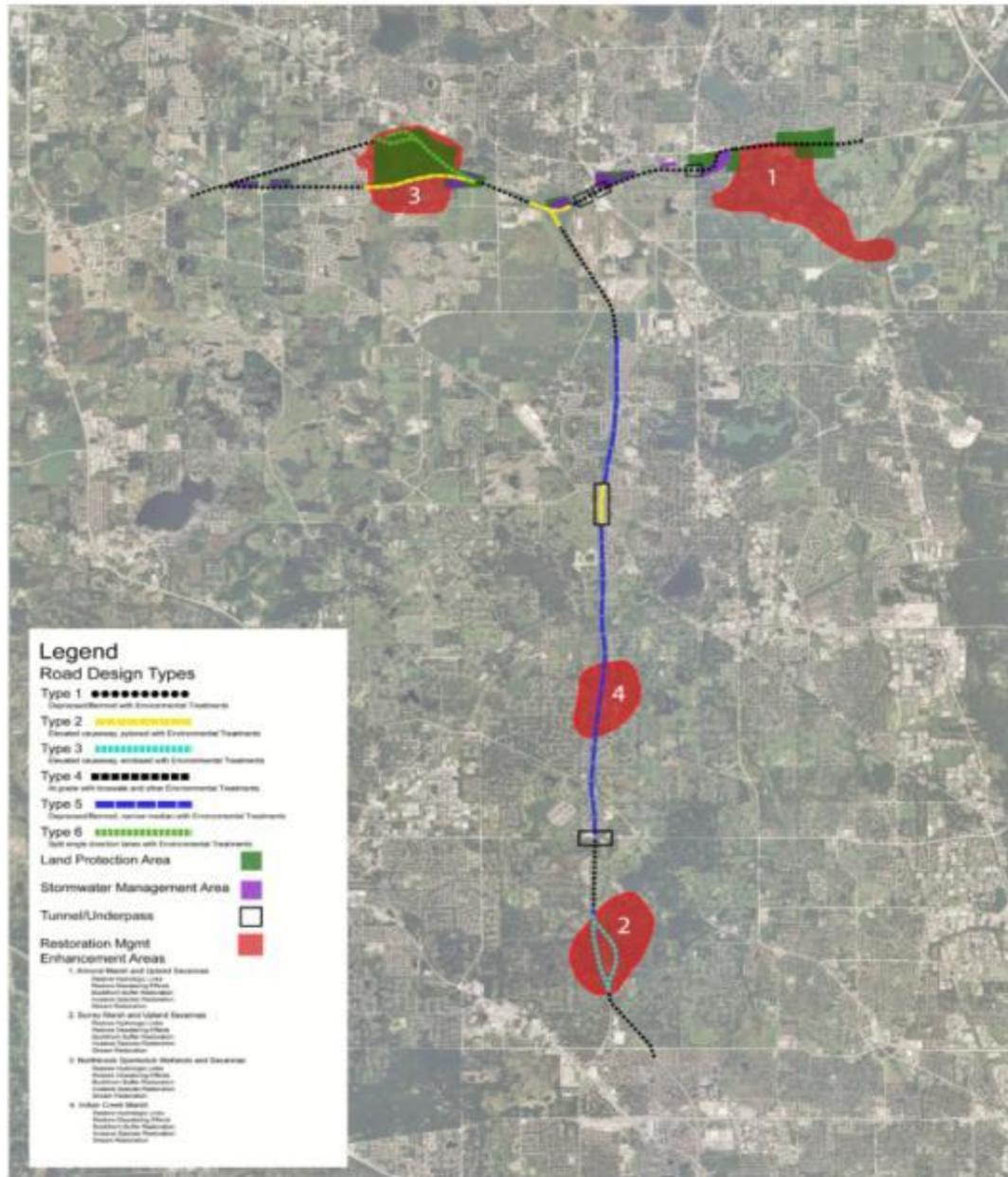
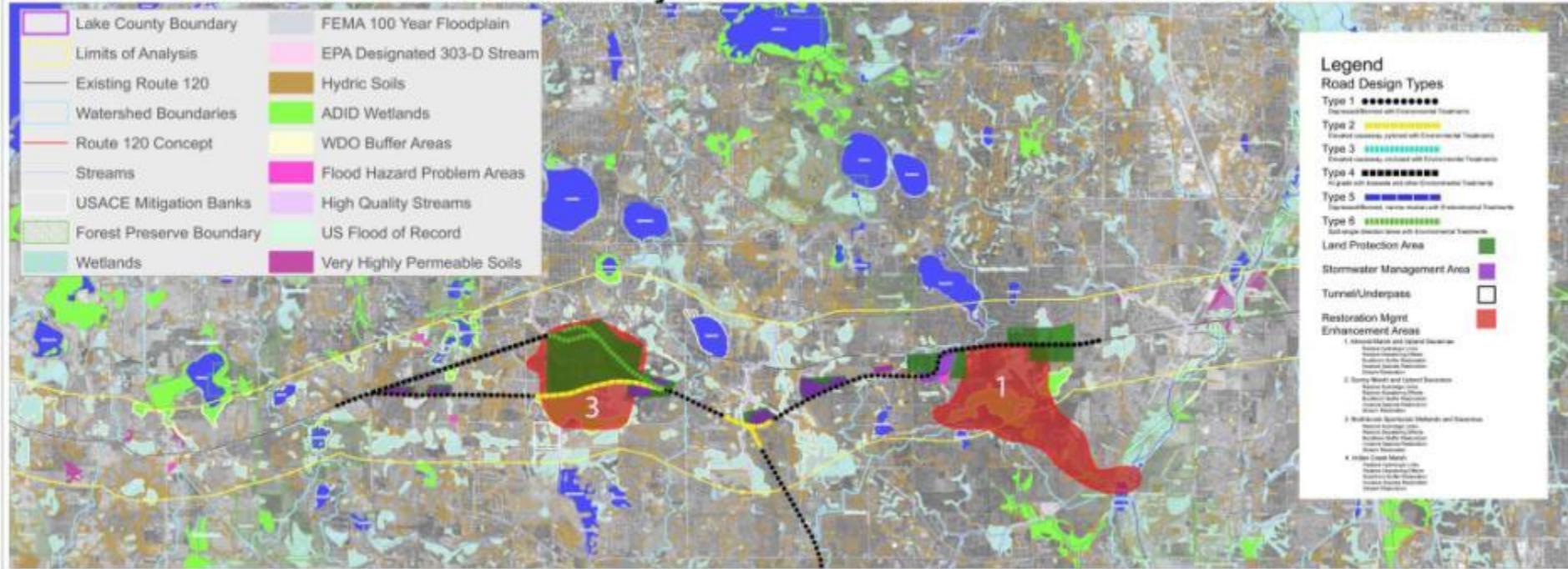


Figure 1B. Environmental Roadway Treatments, Conservation protection and 11 restoration lands, Stormwater Management Polishing Areas (SMPA's).

Route 120 Corridor Project - Environmental Overview



**Route 120
Corridor
Planning
Council**
Lake County, Illinois



Disclaimer
This is Route 120 By-Pass Conceptual Alignment depicted in this map is intended to be used as a general reference. It is subject to change, and does not represent either a promise or a recommended final roadway alignment.
This roadway corridor shown is an approximate depiction of the U.S. Route 120 By-Pass alternative studied by the Illinois Department of Transportation as part of their Lake County Transportation Improvement Project in 2010.
This map work represents an illustration of where the road might be placed and is intended to serve as an exhibit for the U.S. Route 120 Corridor Planning Council and associated task force for discussion of the technical, environmental and public information issues associated with a project of this type.

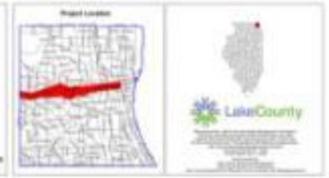


Figure 1C. Environmental Roadway Treatments, Conservation protection and 12 restoration lands, Storm water Management Polishing Areas (SMPA's).

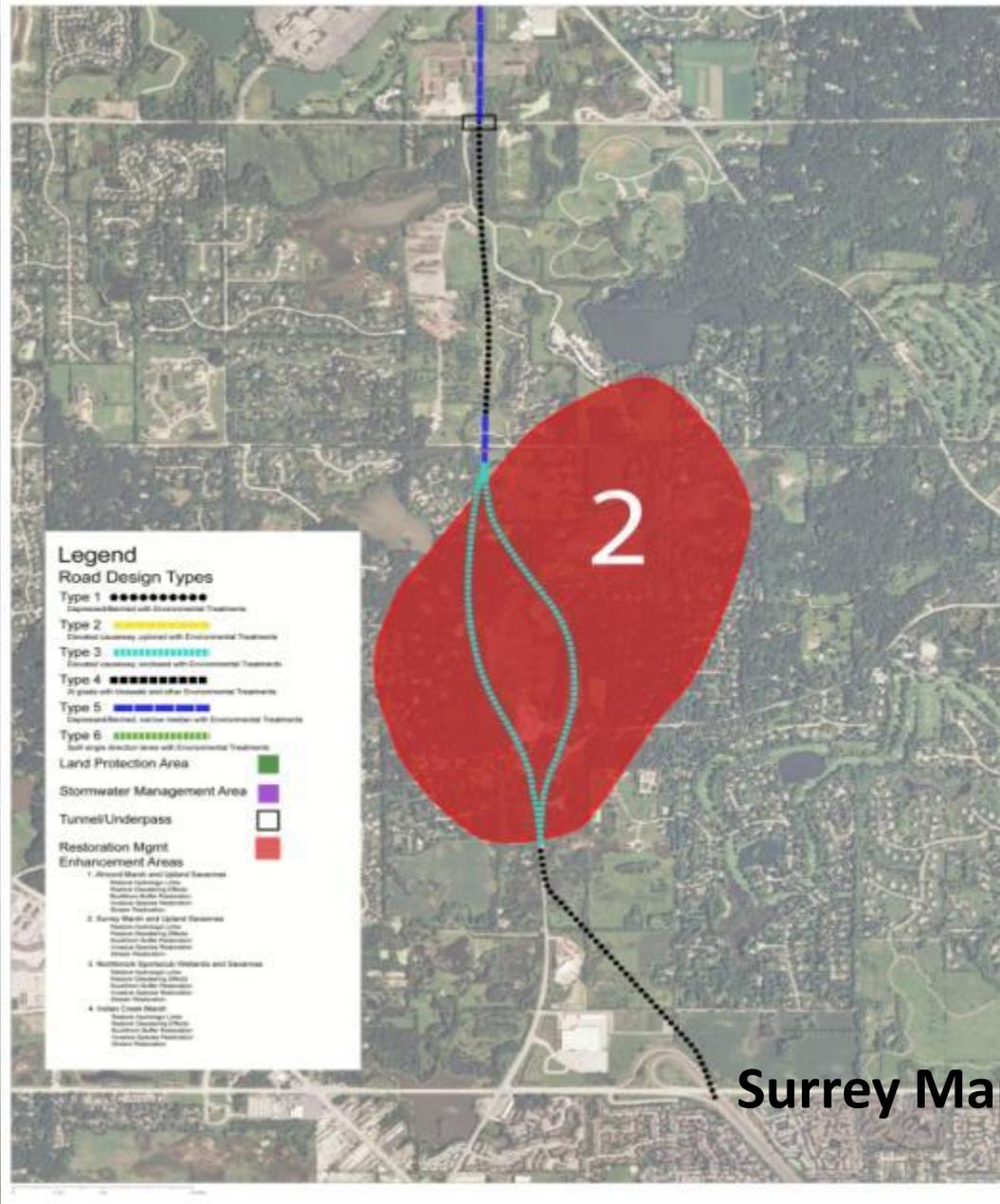
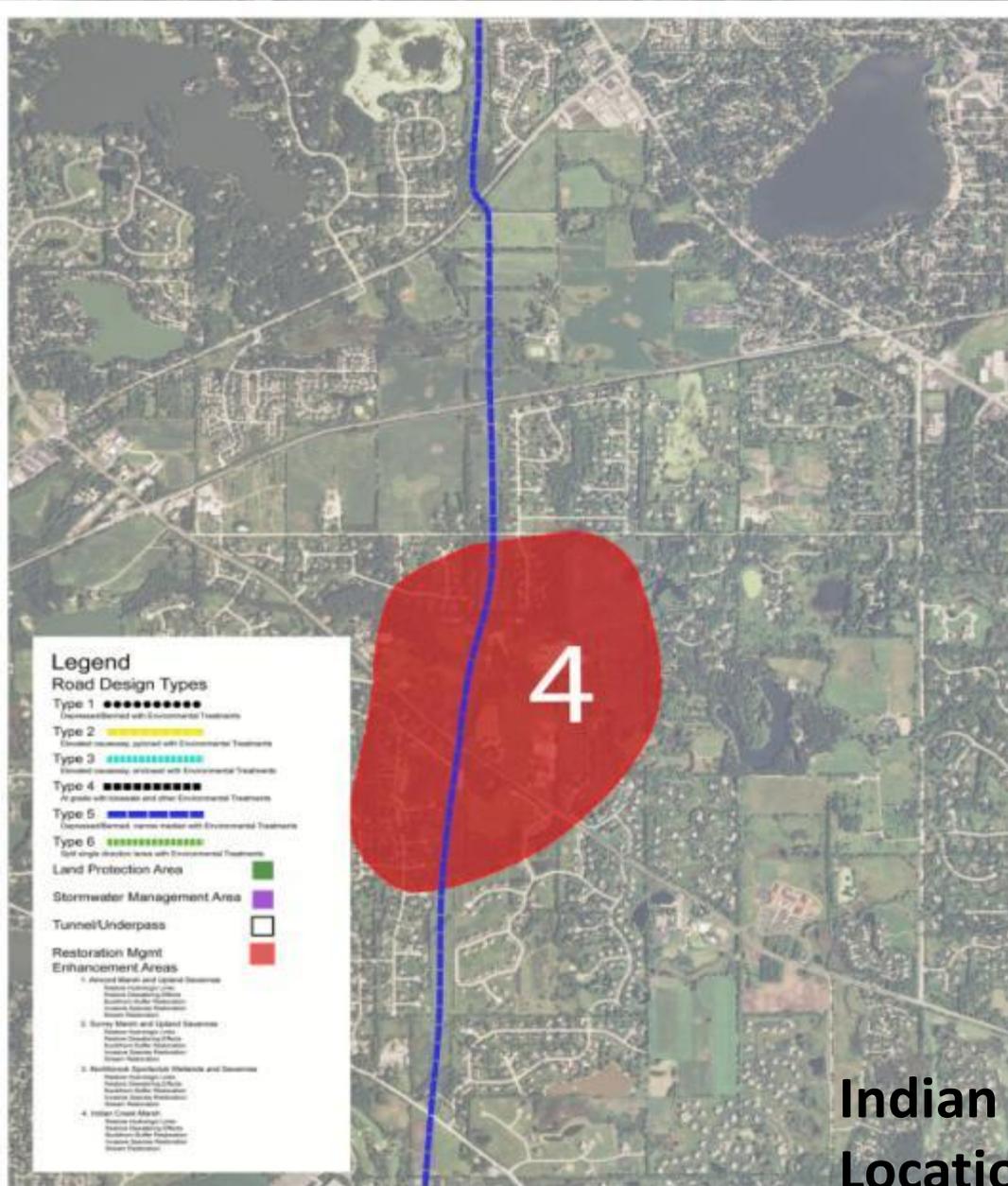


Figure 1D. Environmental Roadway Treatments, Conservation protection and 13 restoration lands, Storm water Management Polishing Areas (SMPA's).



Indian Creek Marsh
Location

Figure 2A. Environmental Road Type 1.
Depressed, Bermed + Full environmental controls

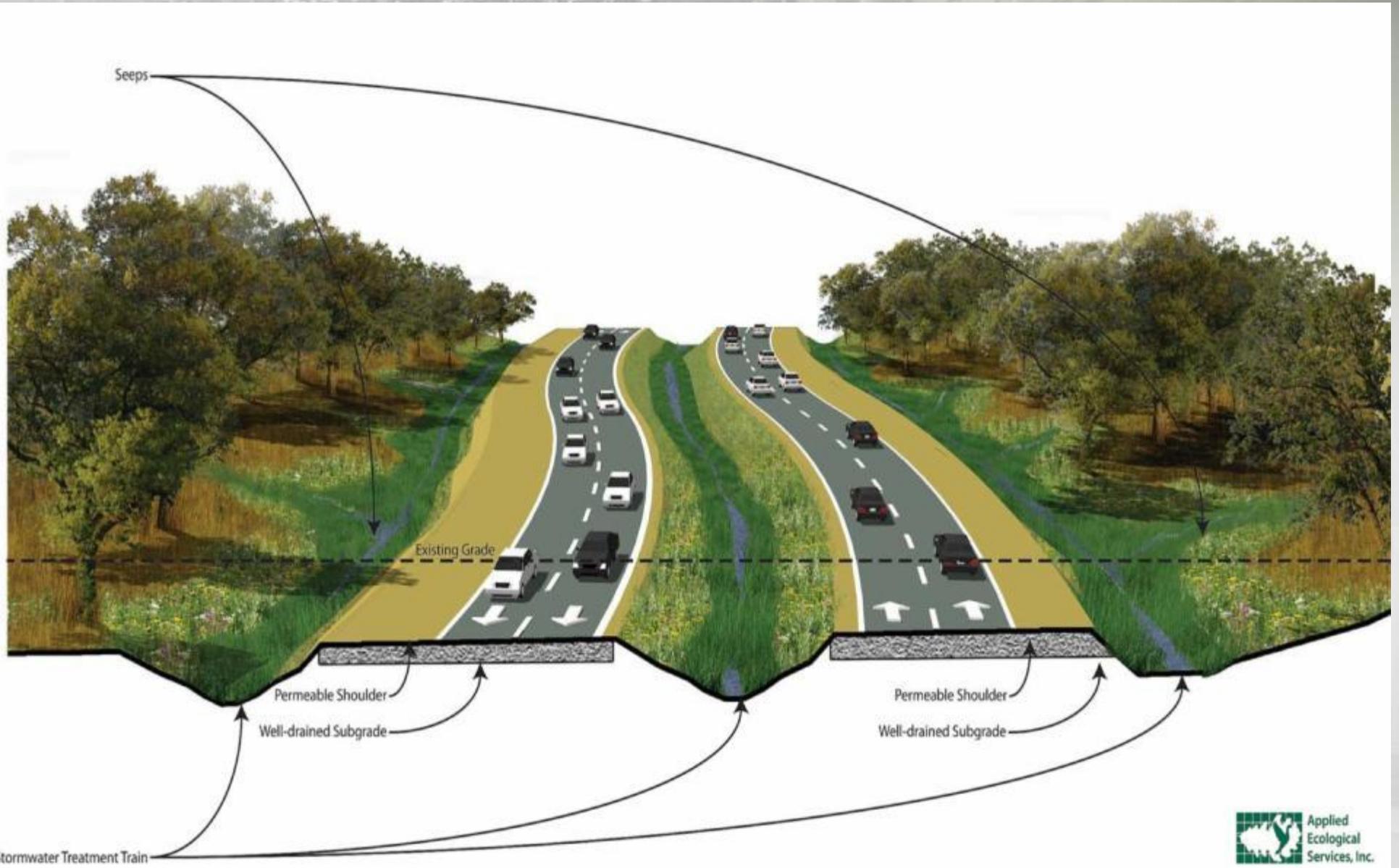


Figure 2B. Tunnel Beneath Existing Rt 137 and two rail lines, viewing east to west.

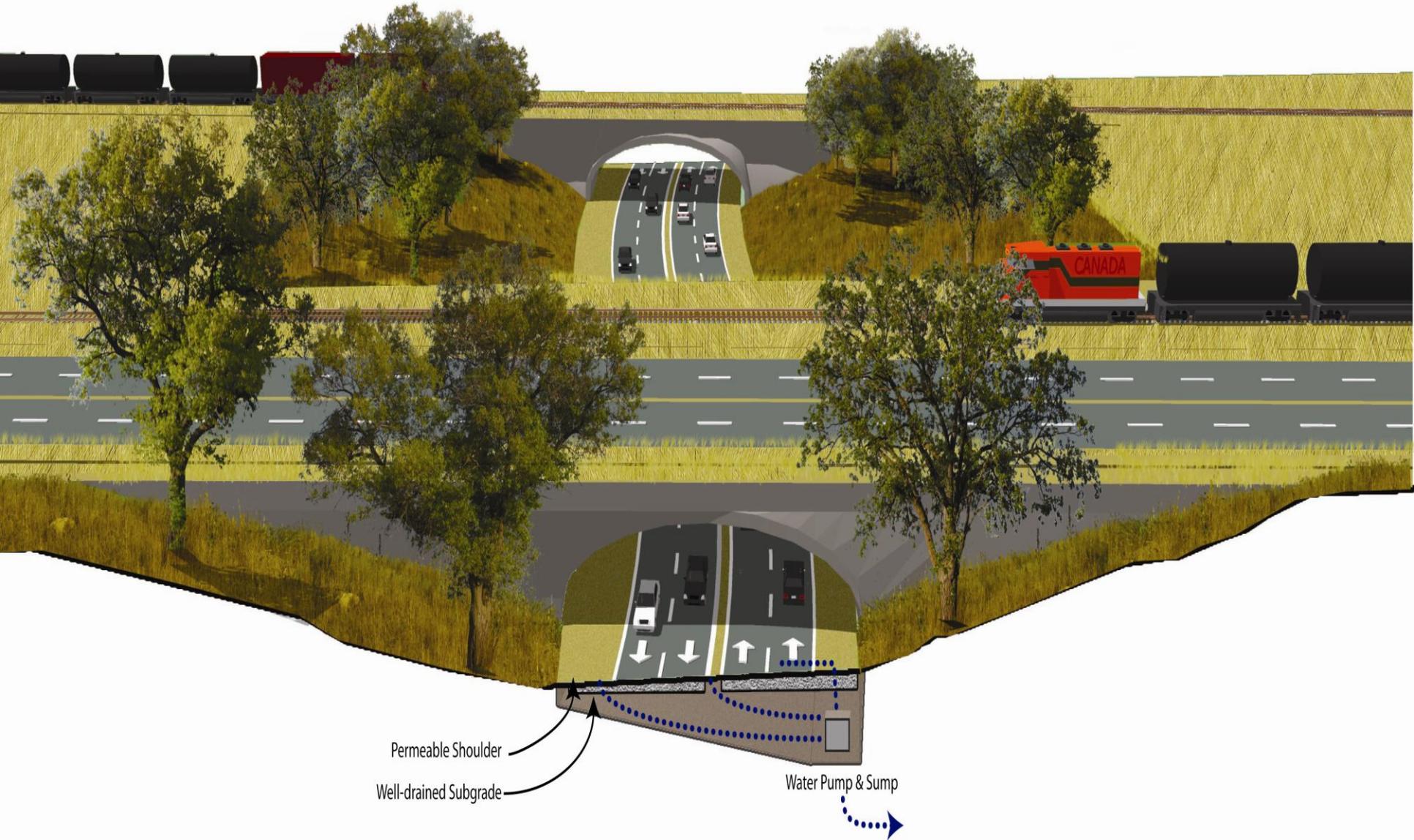


Figure 3 . Environmental Road Design Type 2.

Elevated, arched, pylon supported Roadway.

Indian Creek Marsh + Northbrook Sports Club + Poor soils areas



**Figure 4. Environmental Road Design Type 3.
Elevated and Enclosed, Pylon supported Roadway. Surrey Marsh Wetland Protection**

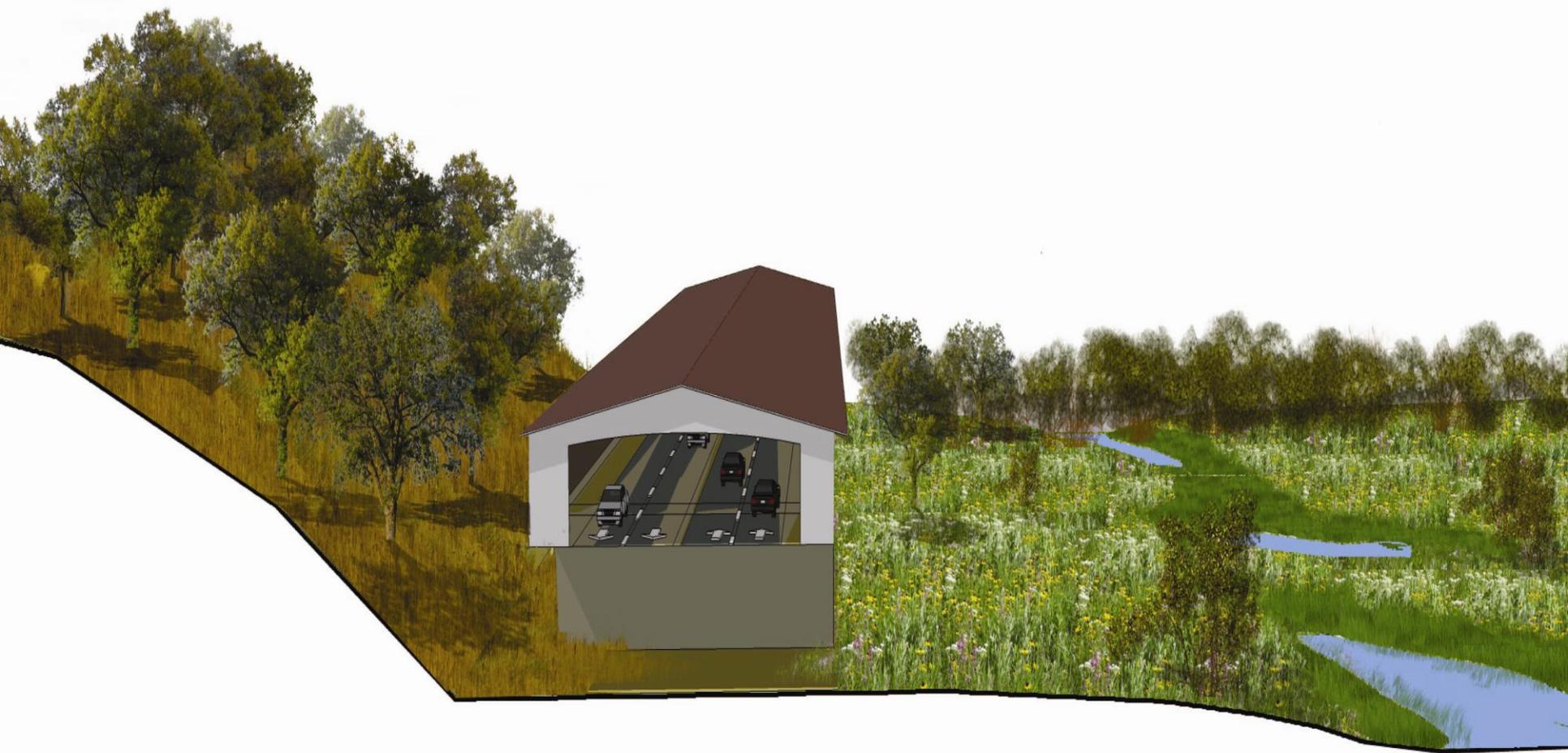


Figure 6. Environmental Roadway Type 5.

Residential Neighborhood Roadway Design
Depressed roadway, Bermed/vegetated for noise/light + other environment treatments

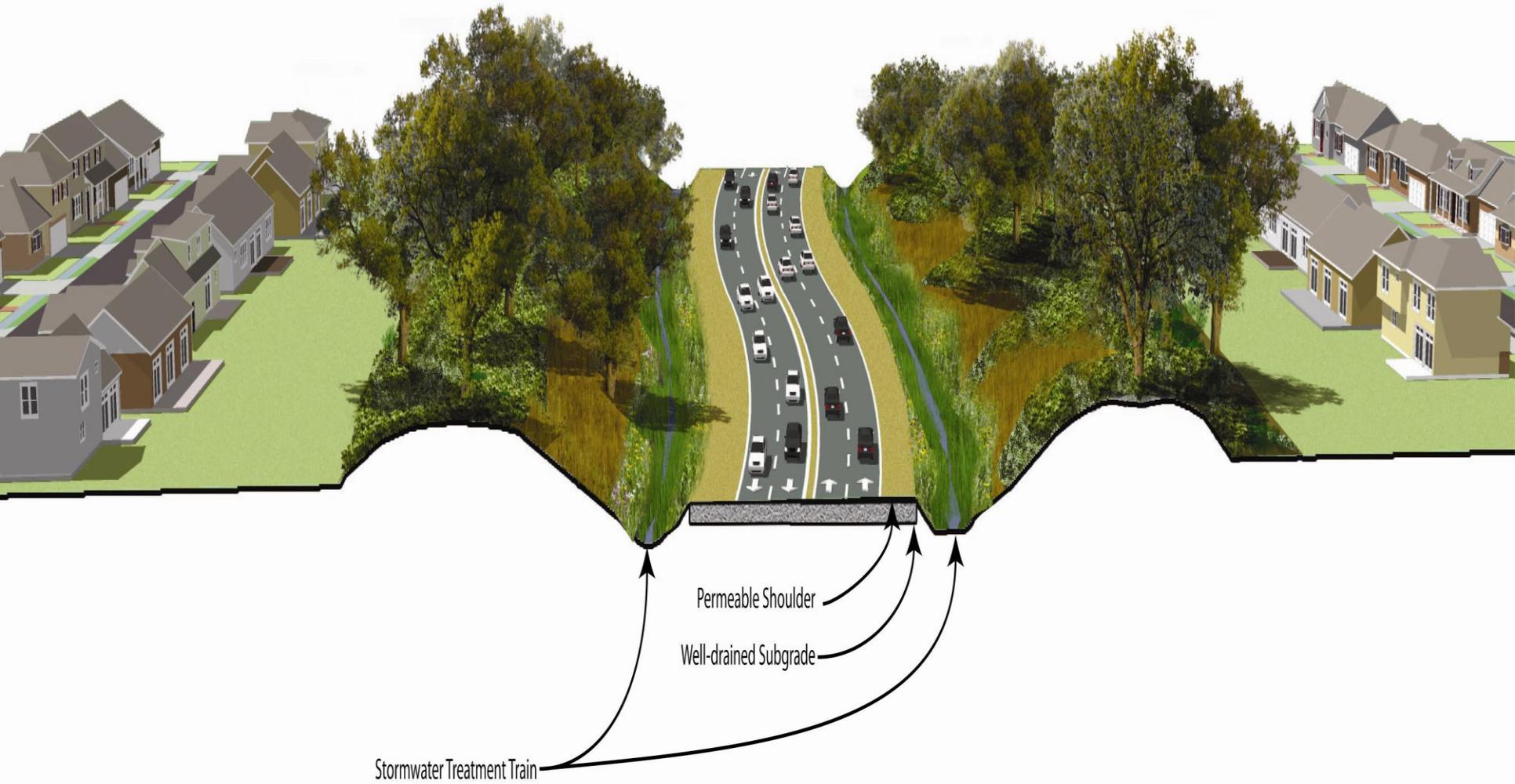


Figure 7 . Environmental Road Design Type 6.

At grade, split couplets with bioswales and other environmental treatments



Northbrook Sports Club

Figure 8 . Land Protection Areas and restoration and Management Areas

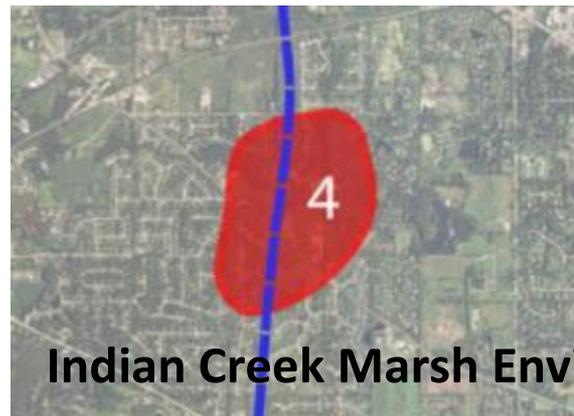
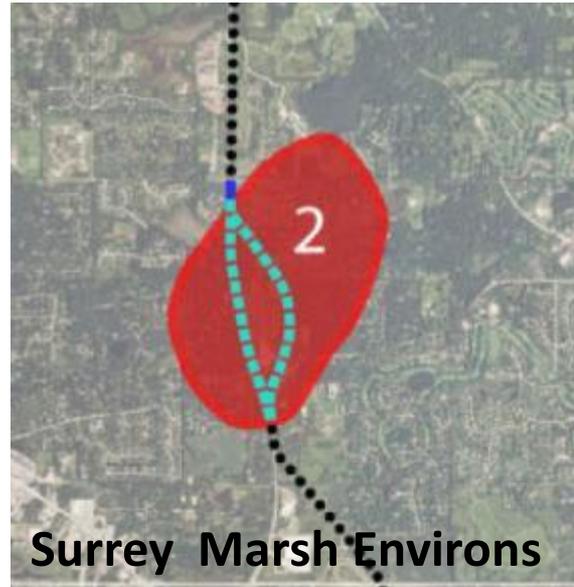
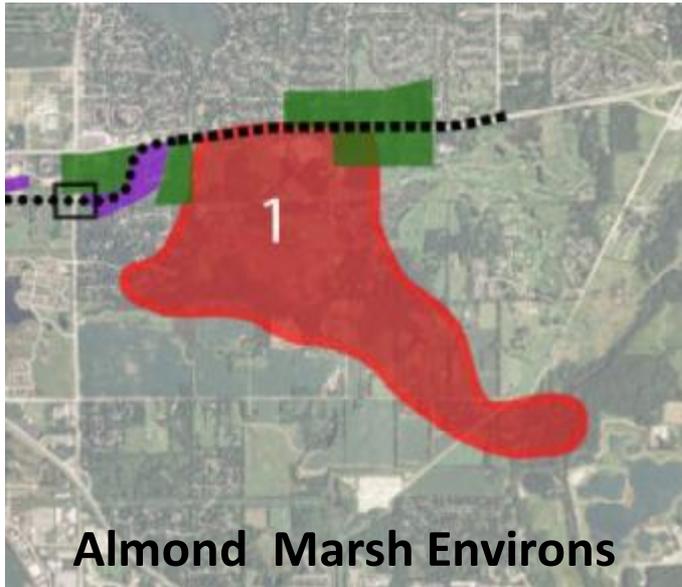
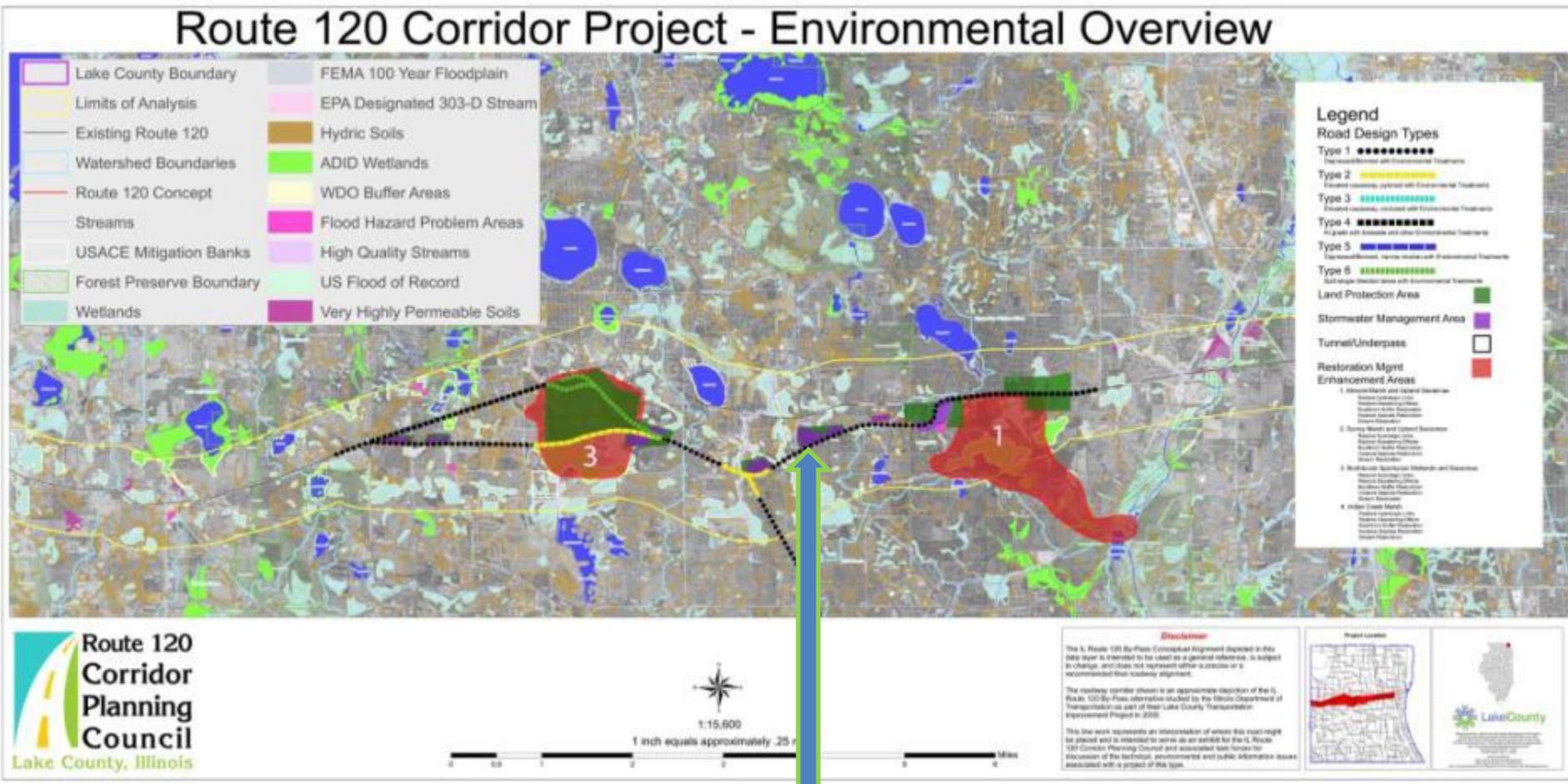


Figure 9 . Stormwater Management Polishing Areas

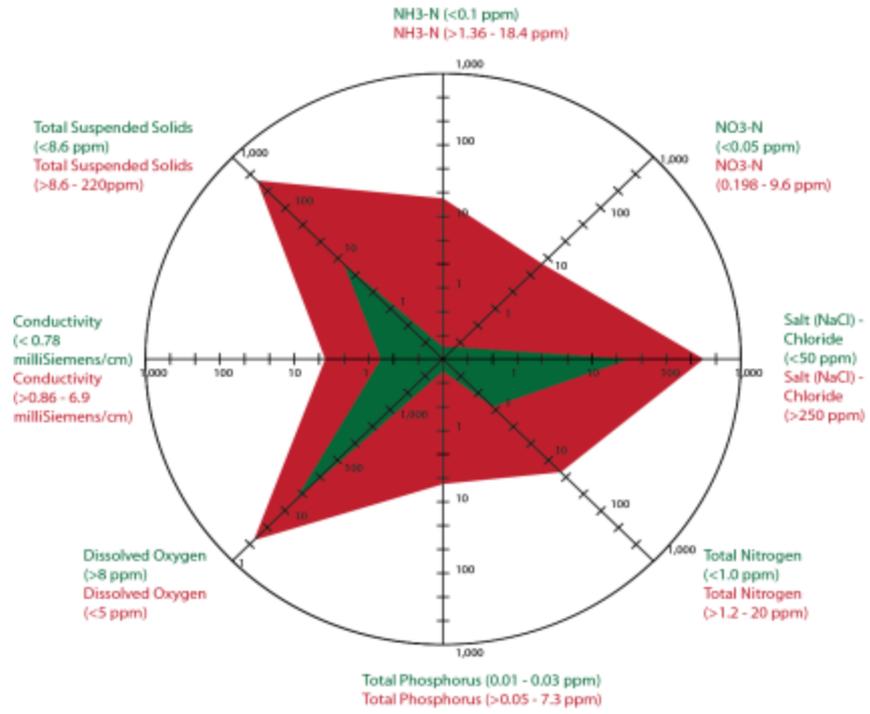


Example Areas for Illustration Purposes Only

Figure 10 . Stormwater Quality and Stream Restoration/Stability

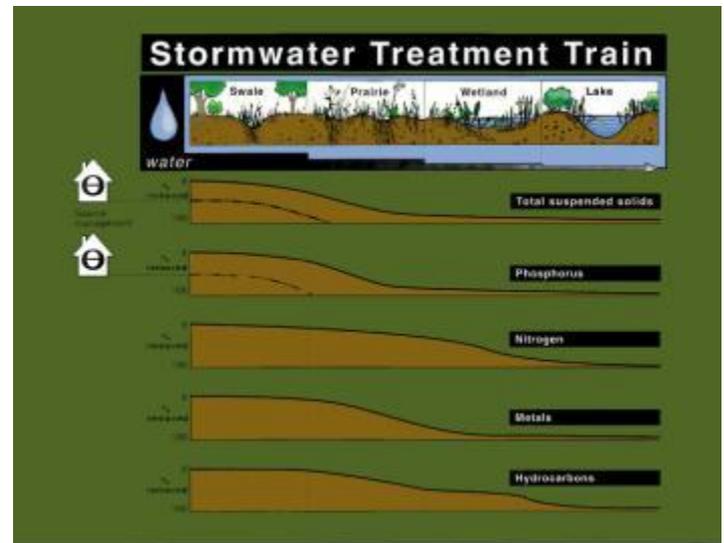
WATER QUALITY FINGERPRINT

Healthy Lake Co. Stream/Lake Water Quality

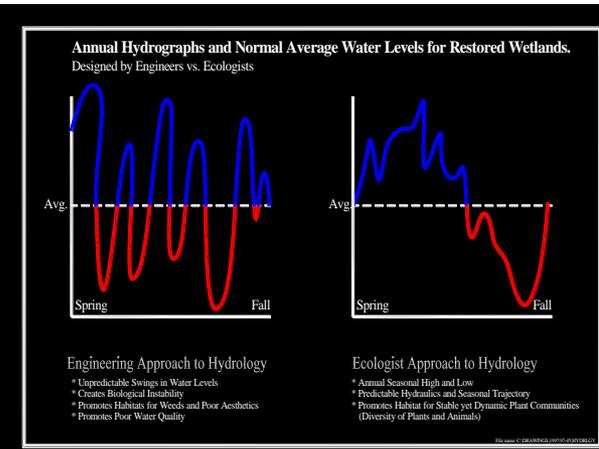


Unhealthy Lake Co. Stream/Lake Water Quality

Source: 2000-2011, Lake County Stormwater Water Quality Summary Statistics Report



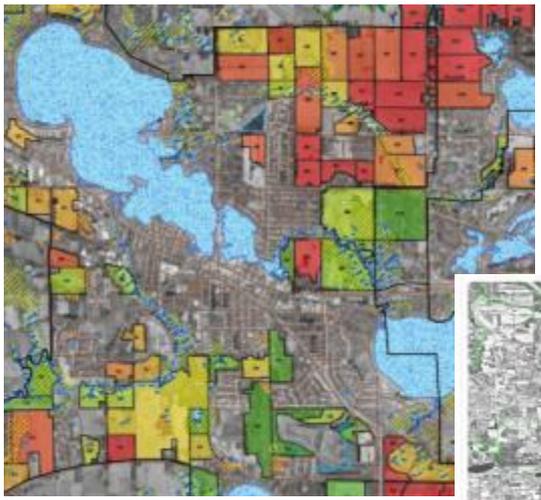
Use of STT's



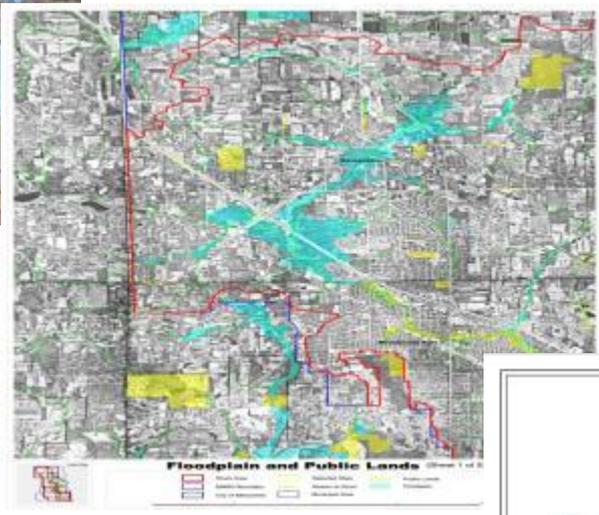
Achieve top 10 percentile quality measurements for healthy Lake Co. waterbodies

Achieve Nature's Hydrograph

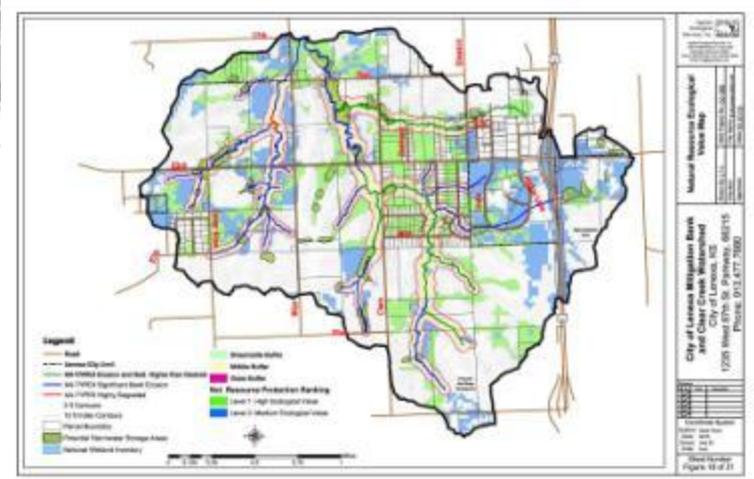
Figure 11 . Process---Combining Habitat, Water Management , Streams to Create Corridor Conservation Plans



Map NRI by parcel

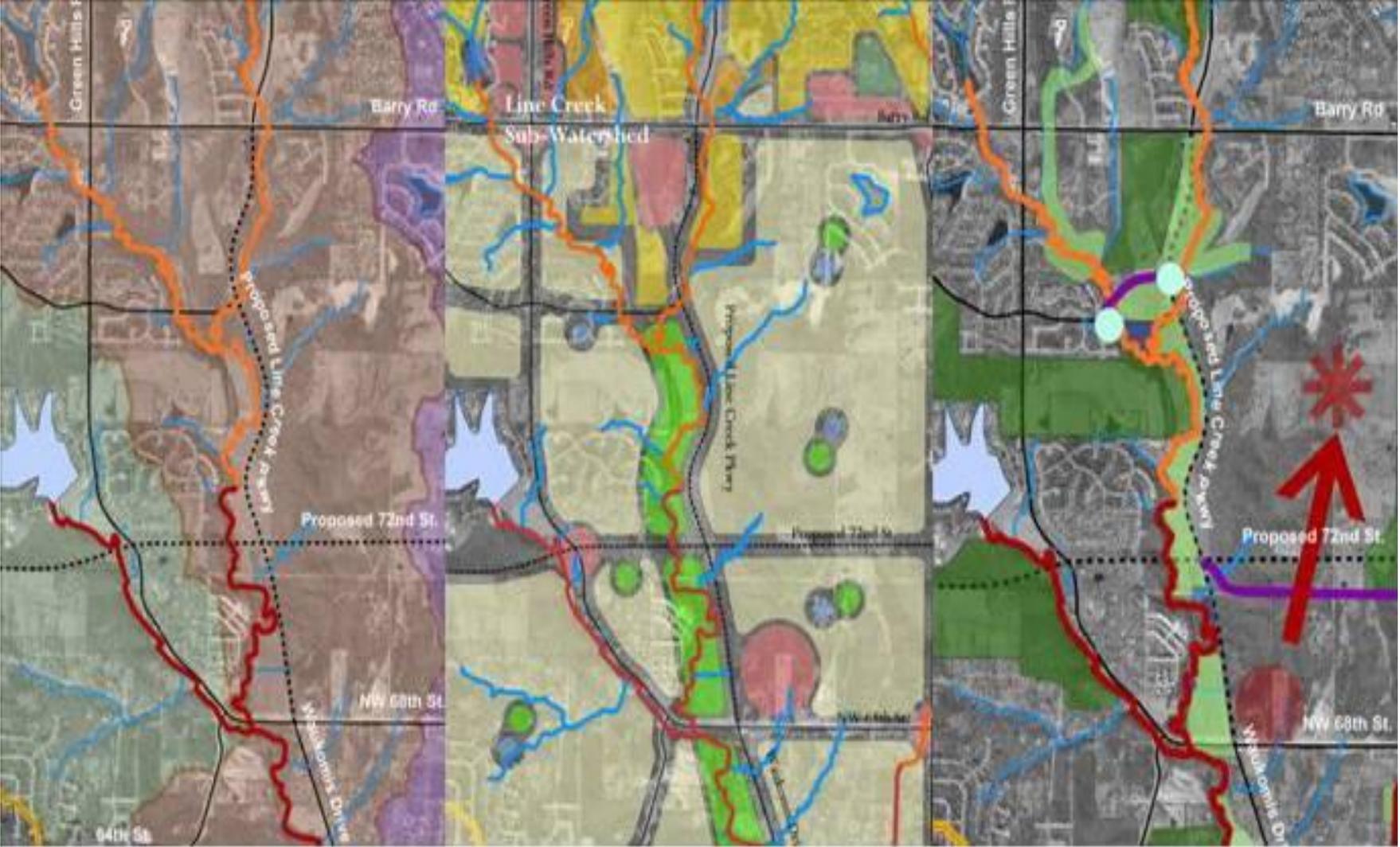


Map STT opportunities



Create corridor Conservation plans

Figure 12 . The Process---Stream Asset Inventory and restoration planning

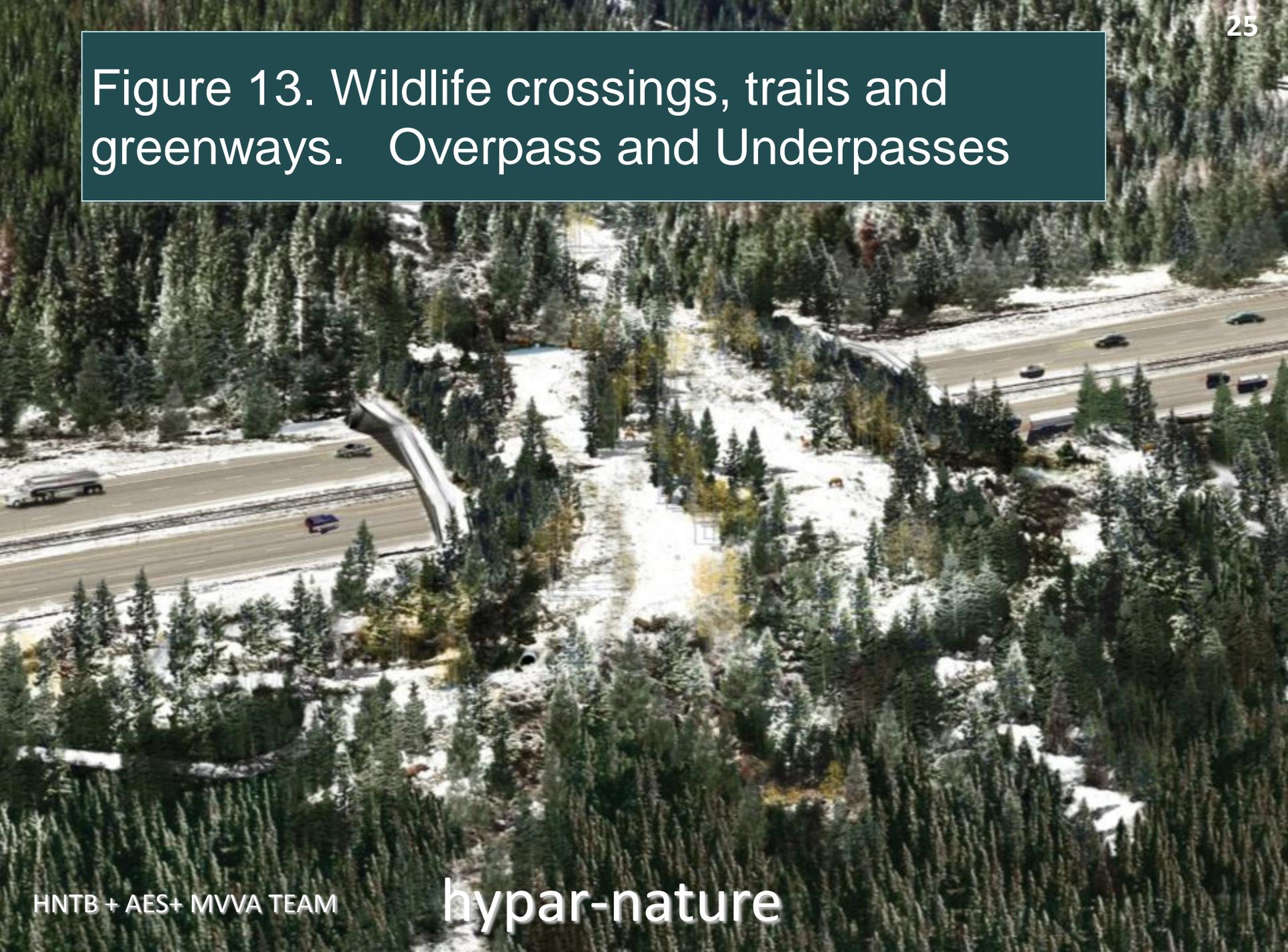


Stream Inventory

Analysis

Recommendations
For Performance

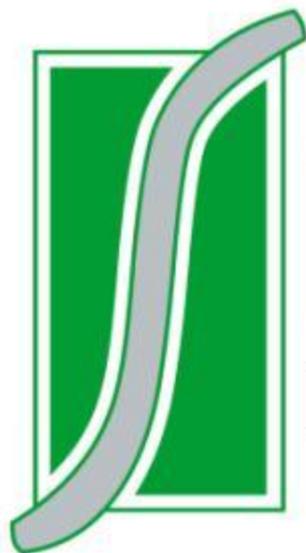
Figure 13. Wildlife crossings, trails and greenways. Overpass and Underpasses





PERFORMANCE CRITERIA

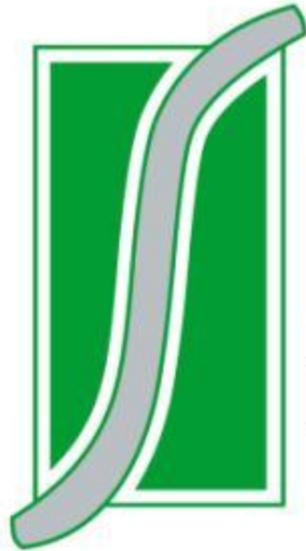
- **Discuss document sent to the Council**
 - Water volume standards
 - Water quality standards
 - Stream crossing quality & hydraulics
 - Approaches to deicing
 - Air quality
 - Roadway lighting
 - Traffic noise
 - Energy and material use
 - Additional requirements for “hot spots”



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PUBLIC COMMENTS



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THANK YOU