



## Public Works | Engineering

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### Sensitive Area Considerations

The City has 16 combined sewer overflows (CSOs). 15 of those CSOs discharge to the Fox River and the remaining CSO discharges to Indian Creek. The location of the City's 16 combined sewer overflows (CSOs) are shown on the attached CSO Basin Map. One requirement of the City's CSO Permit is to determine whether any CSO discharges to a sensitive area, which is a water that meets one or more of the criteria listed below.

1. Outstanding Resource Water

Neither the Fox River nor Indian Creek is identified by federal or state regulators as an Outstanding Resource Water.

2. Area Containing Shellfish Beds

The City contacted the Illinois Natural History Survey (INHS) to determine if there are any known shellfish beds in close proximity to the City's CSO discharges. INHS provided the City with two technical reports containing the results of mussel surveys of the Fox River: *Freshwater Mussels of the Fox River Basin in Illinois* (2013) and *Effects of Lowhead Dams on Unionids in the Fox River, Illinois* (2007). The 2013 technical report documents live mussels found at the Montgomery Dam (downstream of Aurora) and the North Aurora Dam (upstream of Aurora) during surveys conducted between 2010 and 2012. This study did not include any survey locations within the City limits. The 2007 technical report documents live mussels found at the Aurora free flowing site, but the technical report does not indicate the precise location of the Aurora free flowing site. Two live mussel beds in Aurora known by Deuchler Engineering to be monitored by INHS are: (1) between Sullivan Road and Indian Trail, which is upstream of the entire combined sewer system; and (2) near North Avenue, more than 900 feet from CSO 010, which is the nearest CSO discharge.

Deuchler Engineering performed a 2010 detailed mussel survey in the section of the Fox River between Indian Trail and Illinois Avenue. Live mussels were found near Illinois Avenue. CSOs 002 and 023 are located on the east and west sides of the Fox River at Illinois Avenue; however, it is not clear how close the mussel beds were to those CSO discharge points since the permit requirements prevent a detailed description of the mussel bed locations.

3. Area Containing Threatened or Endangered Aquatic Species or their Habitat

No aquatic federally listed species are specifically identified by the United States Fish & Wildlife Service (USFWS) in the Fox River Basin; however, the USFWS' County Distribution of Federally Threatened, Endangered and Candidate Species lists several aquatic species with habitat described as "large rivers" or "small to medium-sized creeks." The Fox River would qualify as a large river and Indian Creek would qualify as a medium-sized creek.

Biological sampling of fish species performed between 2010 and 2020 identified nine individuals of the state endangered Greater Redhorse (*Moxostoma valenciennesi*) in the Fox River within the City limits. One individual was found in 2010, two in 2013, three in 2014, two in 2017, and one in 2018. The

locations of these individuals ranged from Hurds Island to the Aurora dam to Sullivan Road. These results seem to indicate the Greater Redhorse is transient through Aurora, not located near any given CSO outfall.

Two recent City projects received and implemented work restrictions in the Fox River in avoidance of an Incidental Take Authorization for the Greater Redhorse upstream of the Aurora dam. These special conditions were part of USACE Section 404 permits for RiverEdge Park and the Aurora Transportation Center ITEP Project (Pedestrian Bridge over Fox River).

4. Area Used for Primary Contact Recreation

The IEPA notified the City on July 17, 2009 that the public parks near CSOs 001, 022, and 023 present opportunities for primary contact recreation. The discharges for CSOs 001, 022, and 023 have not been relocated and those public parks remain unchanged.

The IEPA has affirmed the City's determinations that its other CSOs do not discharge to areas of primary contact recreation. Those determinations were made based on the City's detailed analyses of the river depth, depth of sediment, accessibility, and other factors. Those analyses were completed in 1997-2000. They are included in Appendix O of the City's approved CSO Long Term Control Plan (LTCP) and the findings of those analyses are summarized in Section 3 of the LTCP. Since the LTCP was approved, there have been no significant changes in land use near the City's CSOs that would suggest a new analysis is necessary, nor is there any reason to believe the river depth, depth of sediment, accessibility, or other factors have changed materially.

5. National Marine Sanctuaries

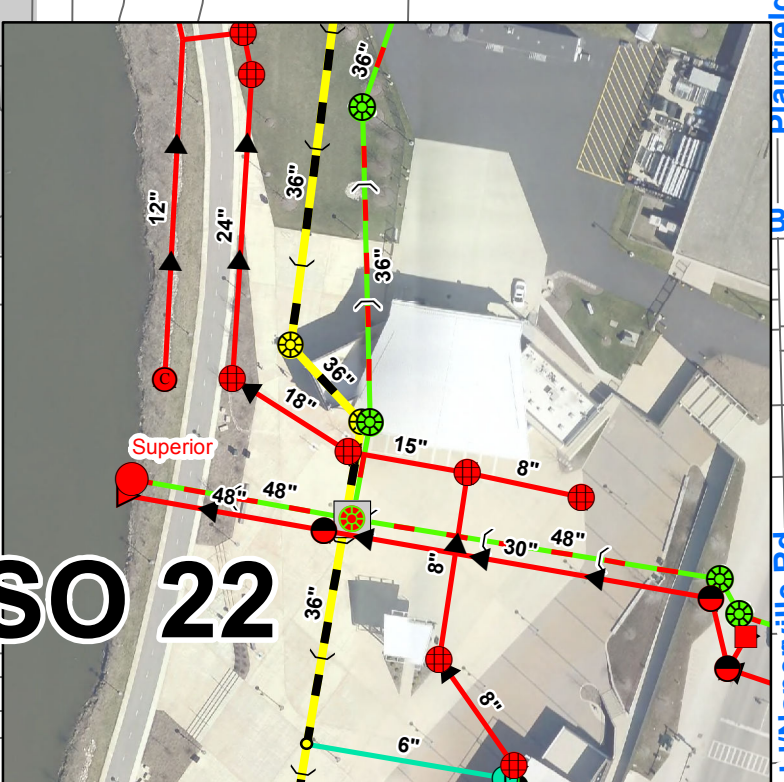
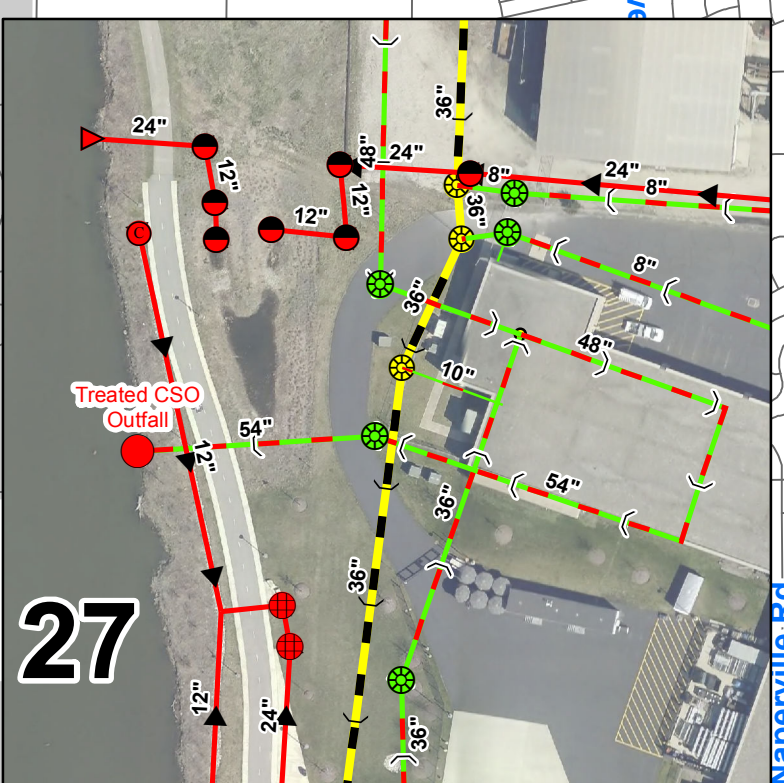
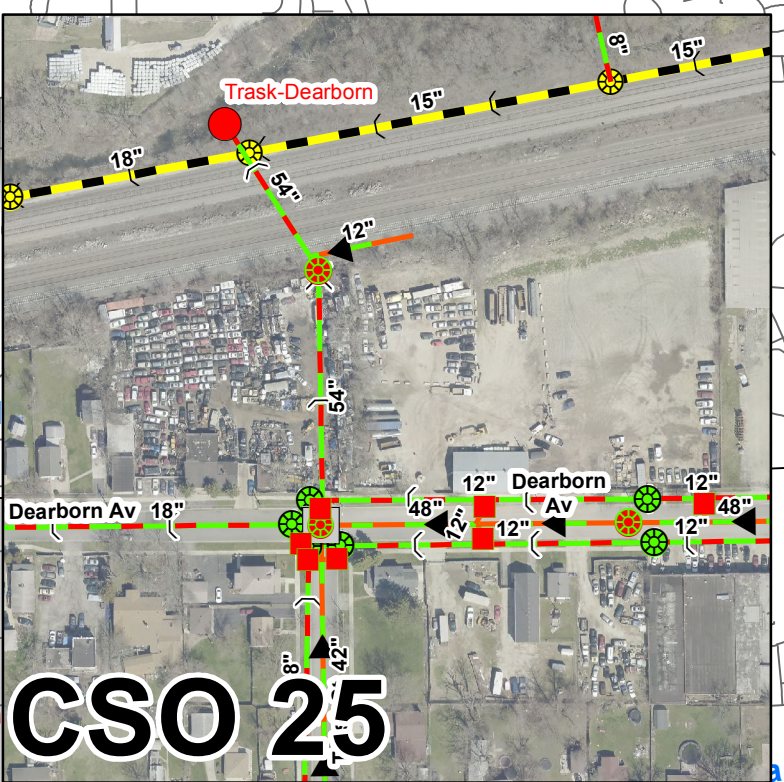
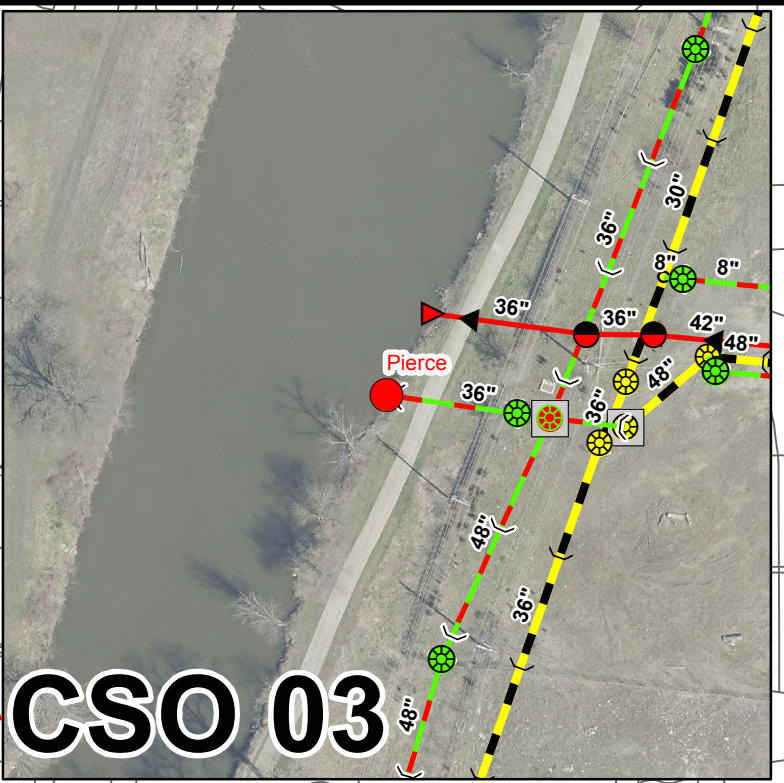
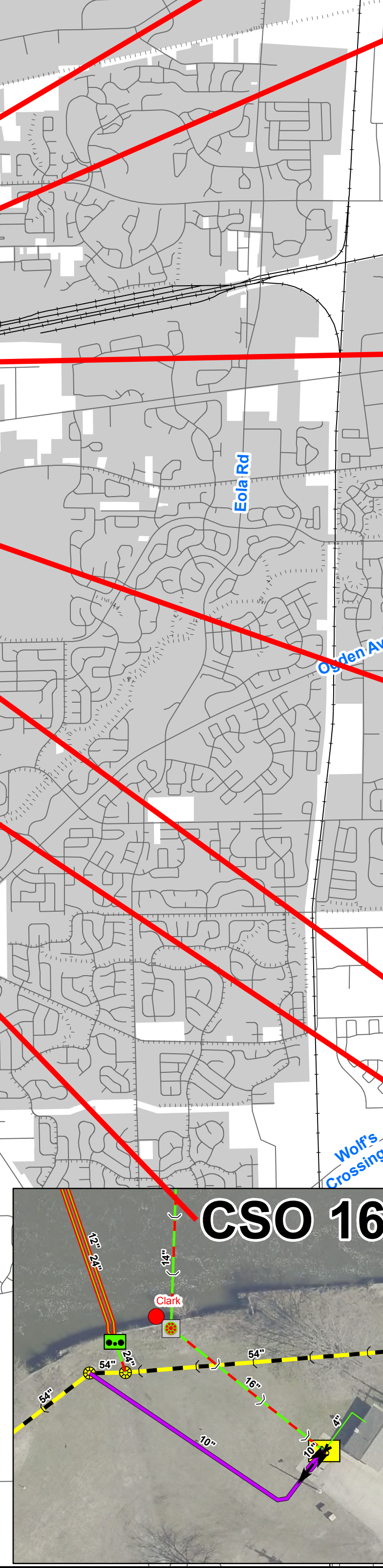
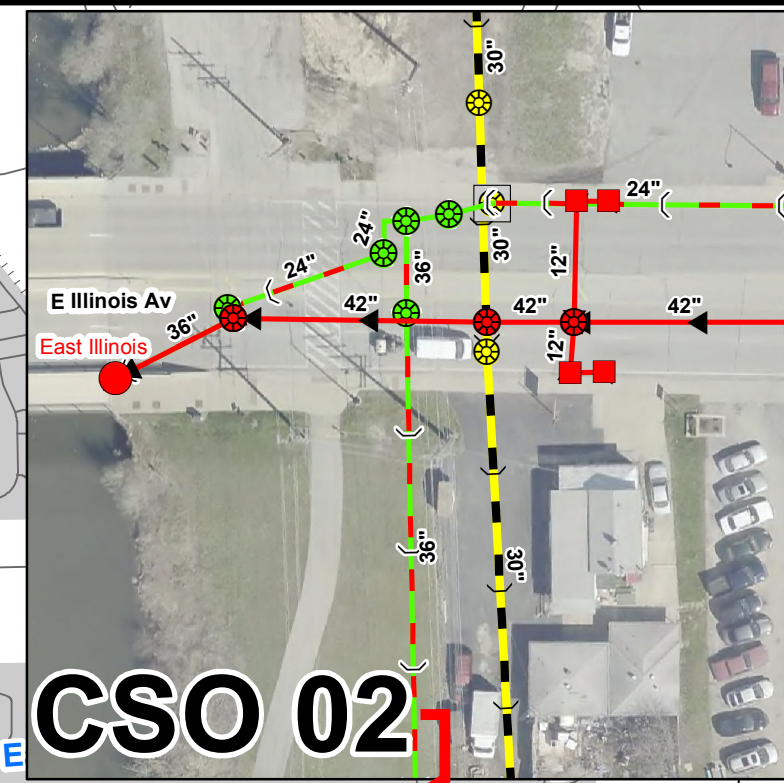
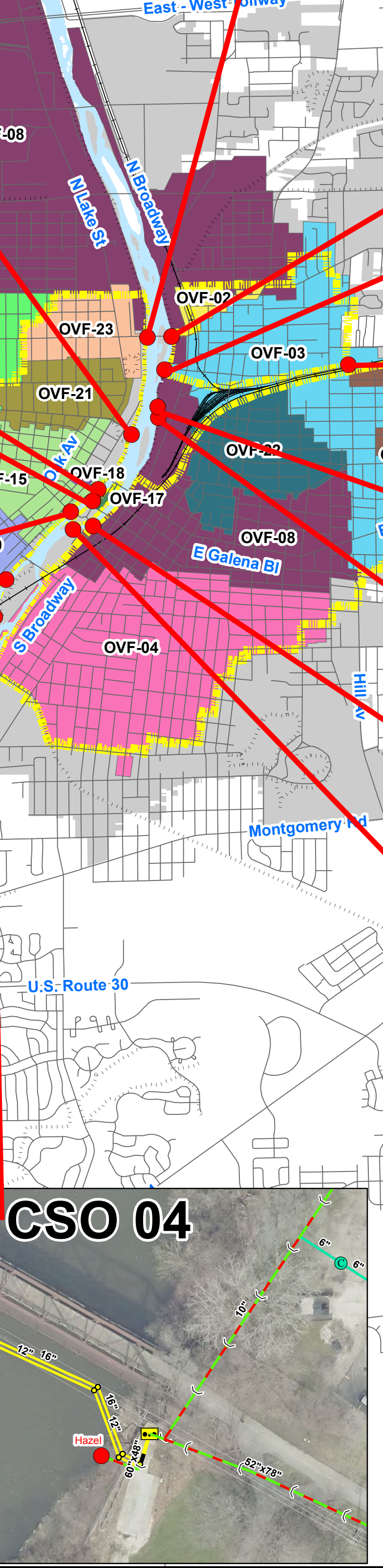
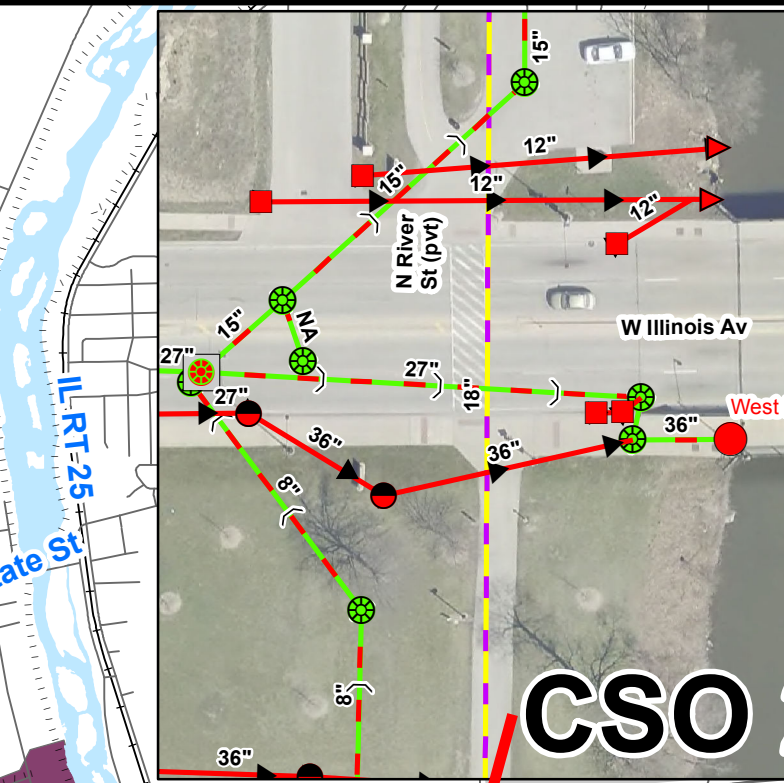
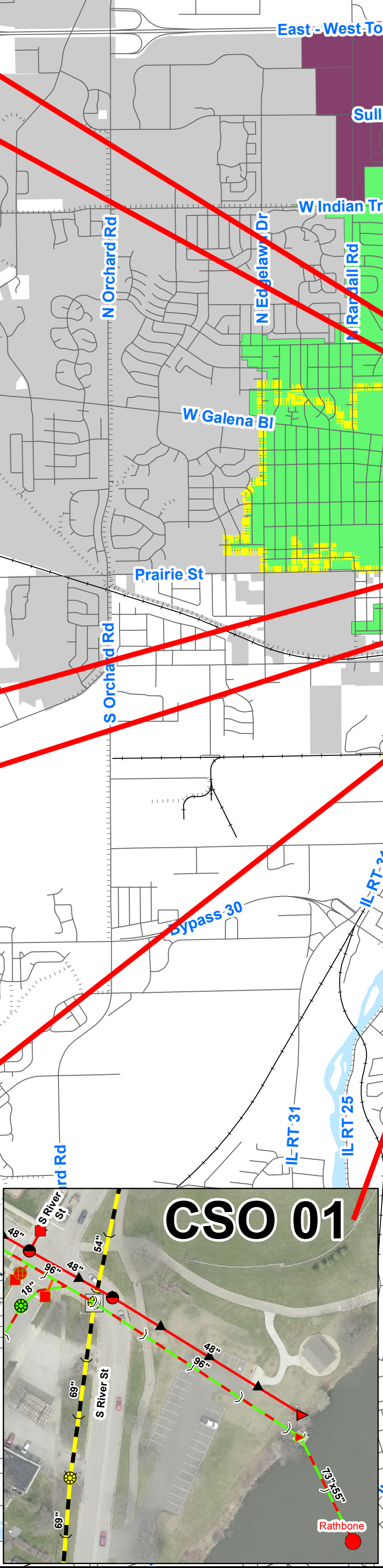
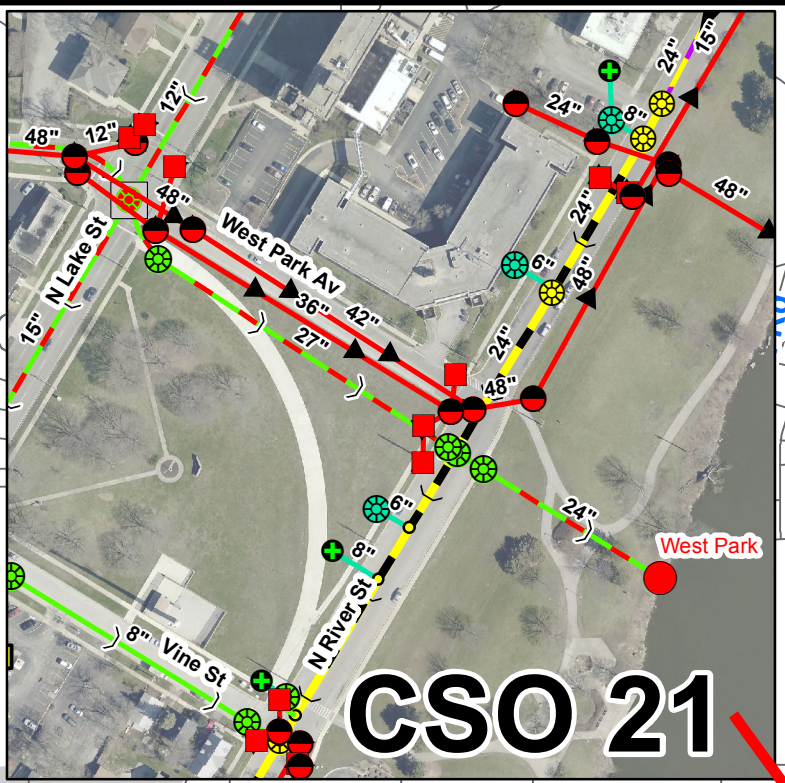
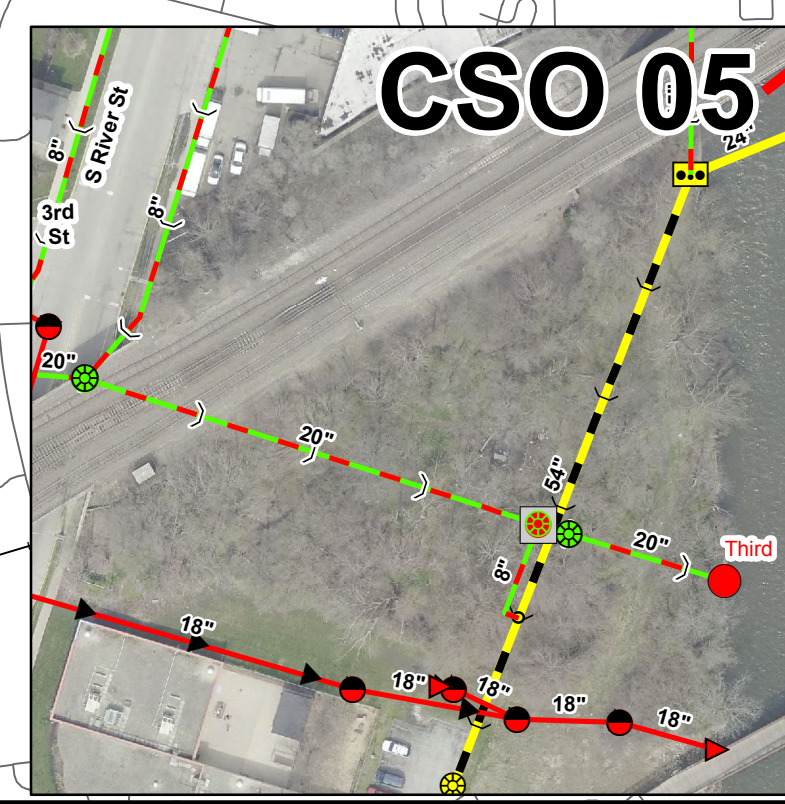
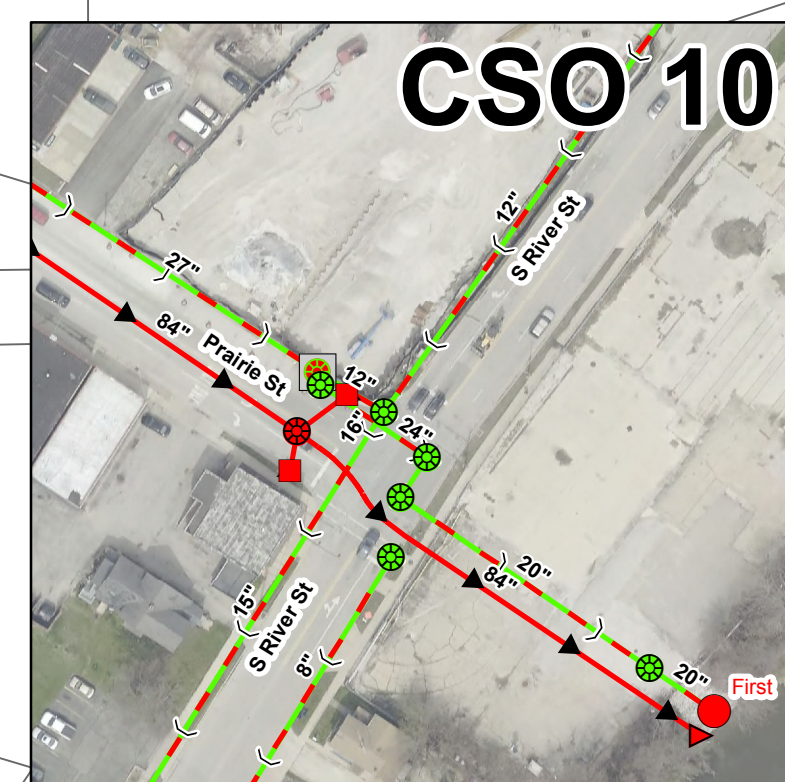
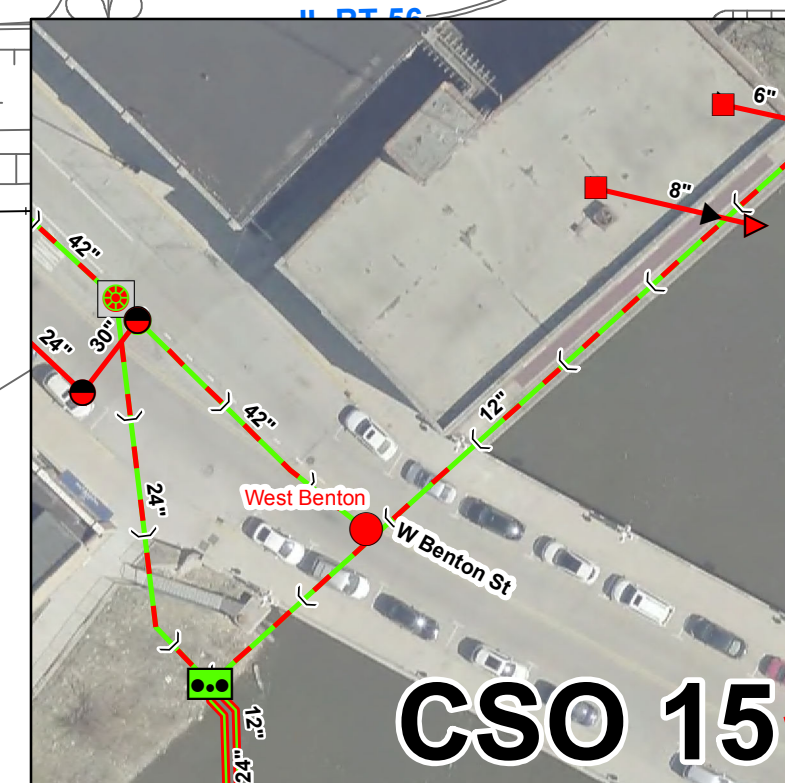
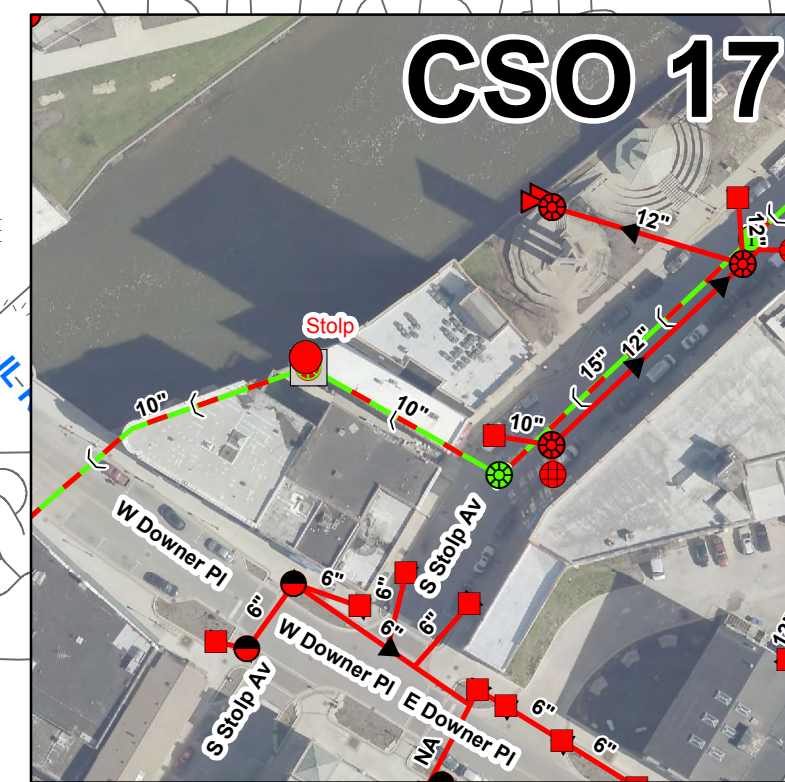
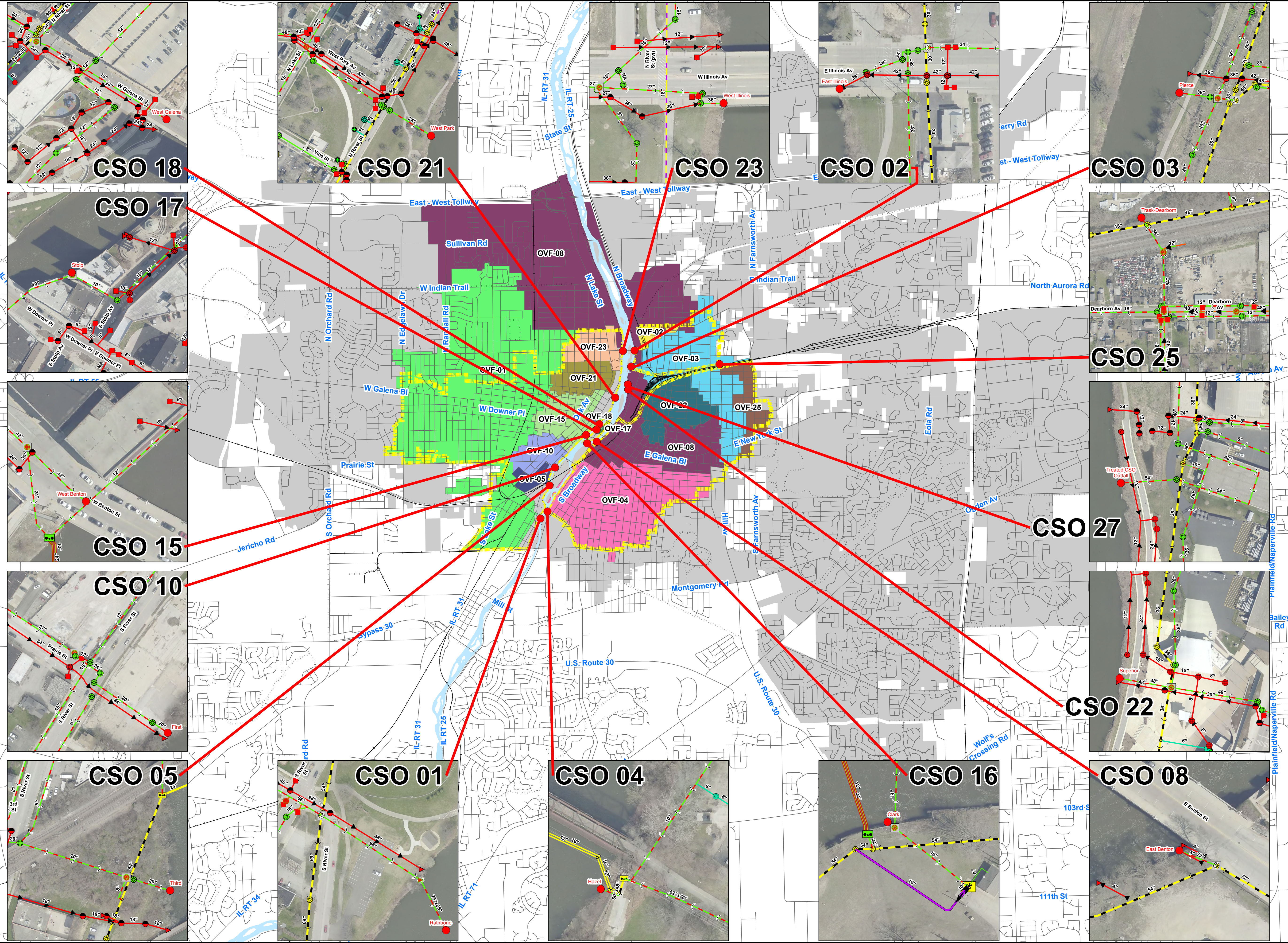
Neither the Fox River nor Indian Creek is identified by federal or state regulators as a National Marine Sanctuary.

6. Within the Protection Area for a Drinking Water Intake

The City of Aurora receives a portion of its drinking water from the Fox River, but the raw water intake is located upstream of the entire combined sewer system. Therefore, no CSO discharge is located within the protection area for the City's drinking water intake structure.

Based on the information presented above, CSOs 001, 022, and 023 are the only City of Aurora CSOs that discharge to sensitive areas.

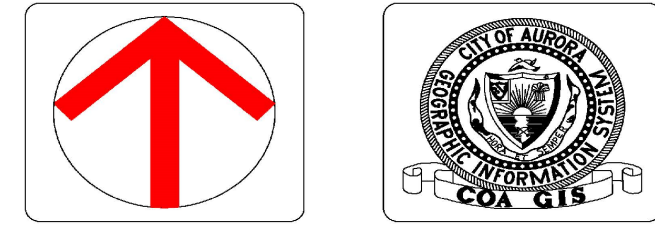




- CSO Outfalls
- Centerlines
- Paths
- Railroads
- Fox River
- City of Aurora
- Combined Sewer Area
- OVF-01 CSO Overflow Basin ID

# CSO Basin Map

DRAFT



INFORMATION TECHNOLOGY  
DIVISION - AURORA, ILLINOIS

The information and/or data on this map depicts/illustrates generalized roadways and circulation and their relationships and is not intended to reflect precise dimensions, and/or distances of individual roads, and/or exact road alignments and right-of-ways. The map and data on this map is intended for informational purposes only.