

C. Comprehensive Plan No. 2

This plan would consist of reducing the floodway by making improvements to the existing channel, replacing selected structures and not constructing any detention ponds. The improvements would consist of the following:

Park Creek

- Upsize the Fourth Street SE box culverts to 3-12'x 7' boxes
- Replace the Railroad Bridge with 200' span bridge
- Replace the Garfield Ave. Bridge with 2-12'x 6' box culverts
- Replace the Grant Avenue Bridge with 2-12'x 6' box culverts
- Construct Washington Avenue box culvert as designed
- Clean and Grade Stream channel to provide a more efficient channel.

Park Creek Tributary

- Josephine Avenue; add one additional arch pipe

Silver Creek

- Replace the Washington Ave. box culvert with 3-10'x 5' boxes
- Lower gravel road and replace box culverts just east of the dredged sludge holding ponds.
- Clean and Grade Stream channel to provide a more efficient channel.

The opinion of Probable Project Cost for Comprehensive Plan No. 2 is summarized as follows:

Opinion of Probable Construction Cost	\$3,111,000
Contingencies	466,000
Engineering	560,000
<u>Administration</u>	<u>31,000</u>
Total Opinion of Probable Project Cost-Comprehensive Plan No. 2	\$4,168,000

The resulting 100 year and 25 year floodway boundary for construction of Comprehensive Plan No. 2 is shown on Figure 25, Comprehensive Plan No. 2.

C. Plan Development Criteria: The following criteria was used for the preliminary evaluation:

1. Culverts and bridges through the City of Madison were sized to match larger existing structures which will provide a more equal conveyance of water through town. The structures are not intended to pass the 100 year flood without overtopping.

2. Cost Criteria: Opinions of cost were developed for the alternative plans based on 1994 unit costs from bid tabulations, SDDOT projects, cost-estimating publications, and information supplied by local contractors, local utilities and city public works departments. The cost opinion for each plan comprises the following categories:

- Right-of-way acquisition costs
- Construction Costs
- Engineering Services
- Geotechnical Services
- Legal and Administrative Costs