

BENEFITS OF BIORETENTION BEDS

1 WATER QUALITY IMPROVEMENT

"...protect water quality by managing stormwater as close to its source as possible via infiltration into soils, evapotranspiration via plants, and/or harvesting for use. These techniques reduce the opportunity for stormwater to run off, entrain pollutants, and discharge pollutants to waters."

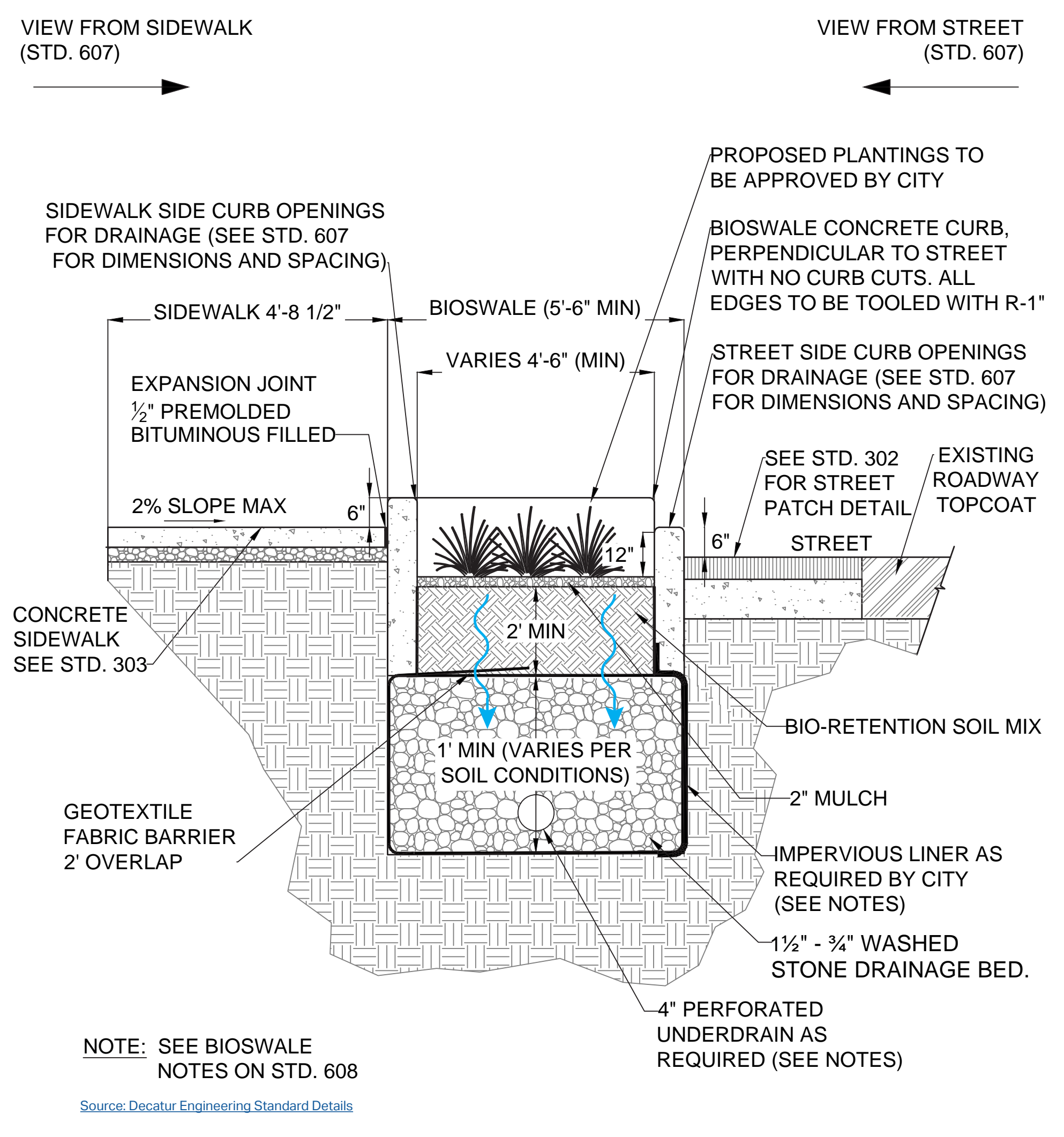
- United States EPA

2 REDUCE PEAK DISCHARGE RATE

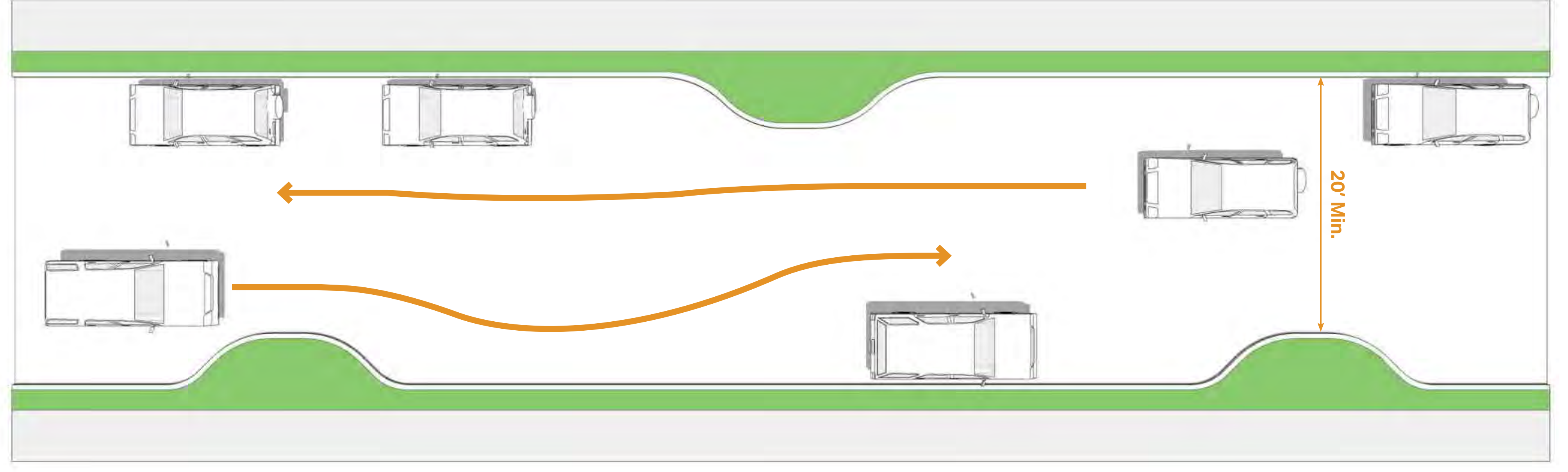
The natural processes of Infiltration and storage reduce runoff volumes and attenuates peak flows. Meanwhile, biological and chemical reactions occur in the mulch, soil matrix, and root zone. Stormwater is filtered through vegetation and soil.

3 AESTHETICALLY PLEASING

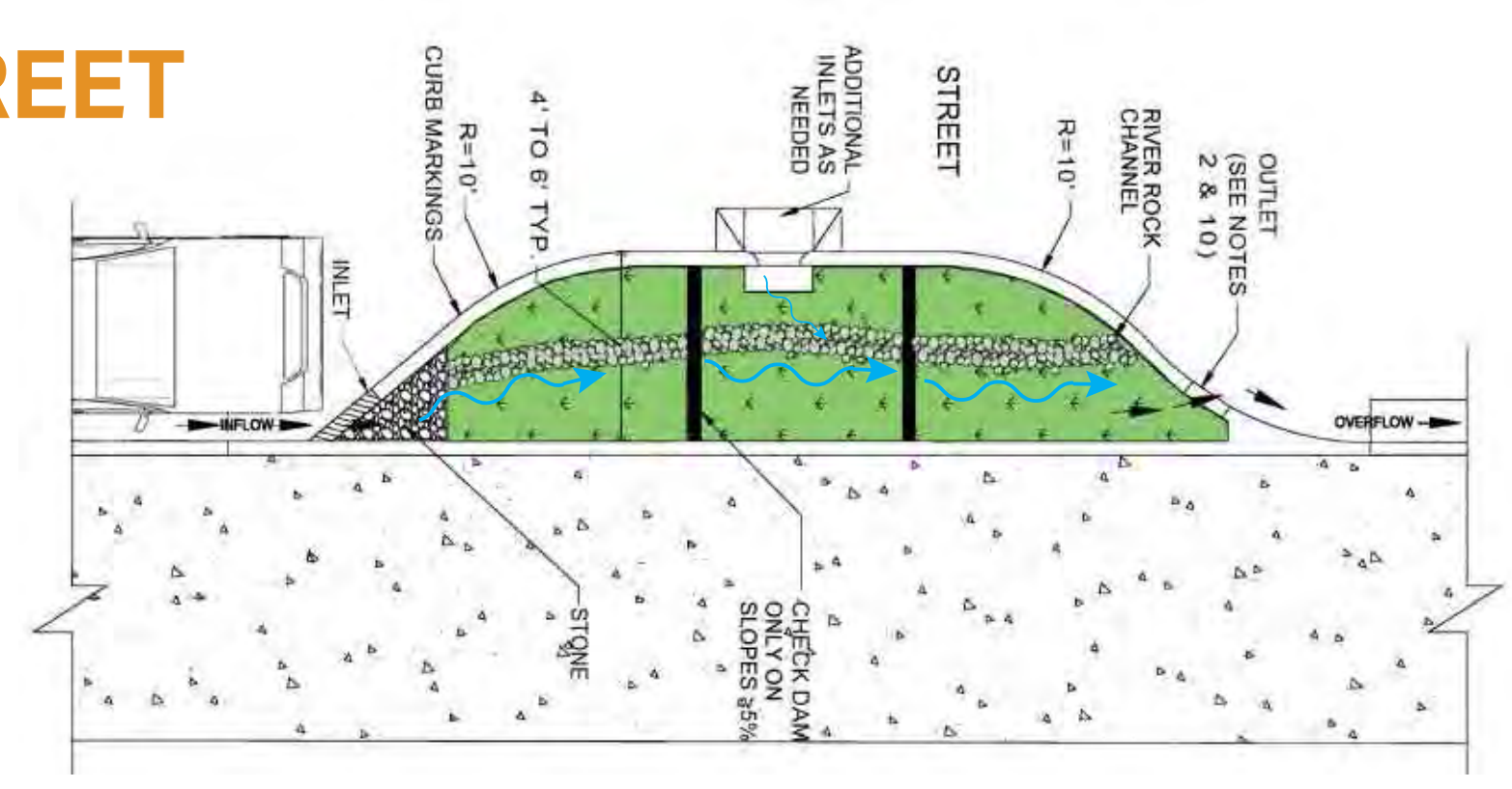
Bioretention is an aesthetically pleasing green street strategy that can be easily incorporated into different landscapes. A variety of vegetation can also be used, including grass, perennial plants, shrubs, and trees.



BENEFITS OF PROPOSED BULB-OUTS



- 1 SLOW VEHICLES DOWN BY NARROWING THE STREET
- 2 PROTECT ON-STREET PARKING
- 3 ADDITIONAL BUFFER FOR PEDESTRIAN SAFETY
- 4 STORMWATER / AESTHETIC BENEFITS



EXAMPLES



PLANTS FOR CONSIDERATION



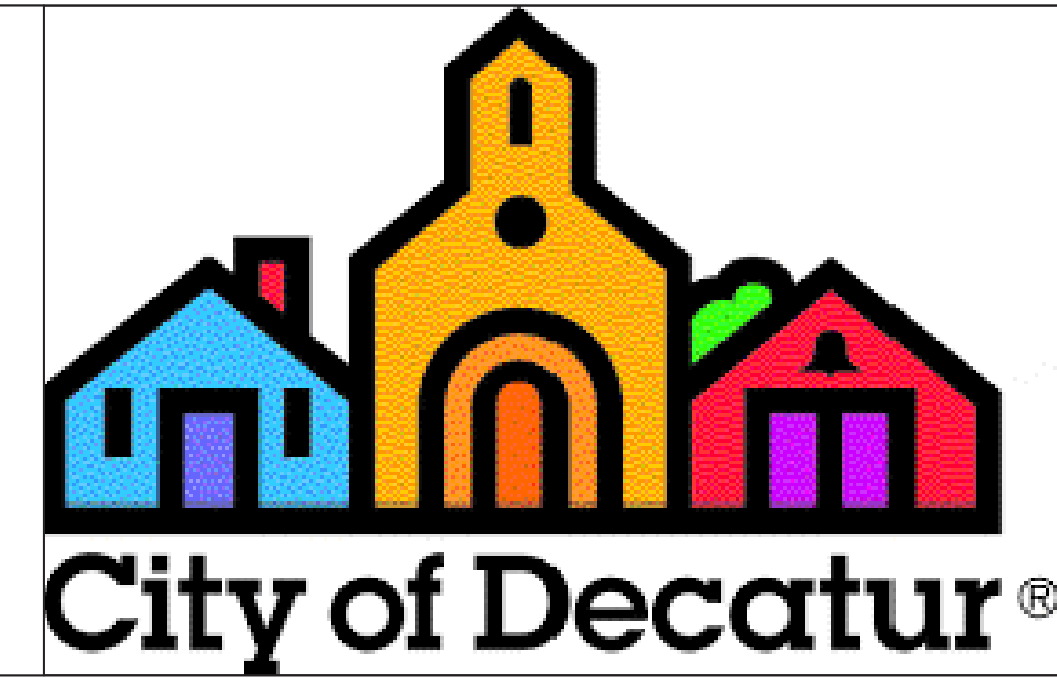
EXAMPLES



*Concept use only, please refer to the final construction document.

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BENEFITS OF BIORETENTION BEDS / BULB-OUTS



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REVISION DATES	

OFFICE:
KNOWLEDGE BOARD

10/23/2019
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