

Appendix J

2009 CIP Ranking Criteria Text

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Greenwich, CT

Capital Improvement Projects Ranking Criteria

Capital improvements for the Greenwich, CT stormwater projects were evaluated using a ranking system. The following describes the ranking process for these projects:

Overriding Considerations

Emergency Access Roads

The first step in the ranking matrix is to establish whether the improvement will help keep emergency access roads open and clear. If an emergency access road is being affected by the project, the project is flagged as a high priority project.

Safety Issue

The second step in the ranking matrix is to establish if the improvement involves a safety issue, for example, if a structural deficiency exists that may cause harm if it is not repaired, the project is flagged as a high priority project.

FEMA 100-year Floodplain

The third step in the ranking system is to establish whether or not the improvement is reducing problems within the FEMA 100-year flood plain. If this is the case, the project is flagged as a FEMA project and may be eligible for FEMA assistance. Projects within the FEMA floodplain will still be evaluated by the ranking matrix so that they may be quantified with other similar projects.

Project Specific Criteria

The next step is to determine how the project rates with respect to nine key criteria.

Land use

Projects are scored based on the land use within the watershed boundary, or within the affected project area if the project only affects a small area of the watershed. Improvements that affect areas with a higher density of commercial and/or residential use receive a higher score, while improvements affecting low density areas and open space receive a lower score.

Land Use	Score
High Density	5
Medium Density	3
Low Density	1
Very Low Density, Open Space or Forest	0

Acres Impacted

Projects are scored based on the number of acres impacted by the improvement. For a large watershed improvement this would be the total acreage associated with parcels seeing a reduction in flooding. For a storm drain subbasin, this would be the entire subbasin, unless only a small portion of the subbasin is seeing an improvement.

Acres Impacted	Score
100+ acres	5
76 to 100 acres	4
51 to 75 acres	3
31 to 50 acres	2
11 to 30 acres	1
10 acres or less	0

Drainage Facility Capacity

Projects are scored based on the existing drainage facility's capacity relative to demand. The existing structure's capacity is divided by the expected peak rates of runoff. The lower the existing structure's capacity relative to expected demand, the higher the score.

Drainage Facility Capacity	Score
Less than 25%	5
25 to 37%	4
38 to 49%	3
50 to 74%	2
75 to 90%	1
Greater than 90%	0

Environmental Quality

Projects are scored based on the impact they will have on water and/or environmental quality for the affected area. For example, storm water projects that provide water quality benefits such as sediment removal, new wetland resource areas, additional wildlife habitat and/or include green BMPs are given a higher score than those that just provide flooding relief. The size of the affected area is also considered.

Environmental Quality	Score
Project will improve stormwater and/or environmental quality of the area	5
Project may improve stormwater and/or environmental quality of a large area	3
Project may improve stormwater and/or environmental quality of a small area	1
No stormwater and/or environmental quality improvements	0

Capital Improvements Ranking Criteria

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Access & Easements

Projects are scored based on the support received by abutting residences, availability of public access, and existing easements within the affected area of the improvement.

Access & Easements	Score
Public access available and support from abutting property owners	5
Partial access available and/or partial support from abutting property owners	3
No public access and possible opposition from abutting property owners	0

Number of Lots Affected

Projects are scored based on the number of lots directly affected by the proposed improvement, such as homes with current flooding problems that are being removed from flood zones by the improvement.

Number of Lots Affected	Score
More than 50 lots	5
41 to 50 lots	4
31 to 40 lots	3
21 to 30 lots	2
10 to 20 lots	1
Less than 10 lots	0

Constructability

Projects are scored based on the ease of construction. Issues considered include ease of integration with the existing drainage system, potential utility conflicts, public and private ownership of the drainage system and other construction related issues.

Constructability	Score
Straight forward construction, easily integrated with the existing system and within public right-of-way	5
Some constructability issues anticipated, partially integrated with the existing system and/or mostly within public right-of-way	3
Complex construction, not easily integrated with the existing system and/or within private right-of-way	0

Roadways Flooded

Projects are scored based on the linear feet of non-emergency access roads being flooded without the improvement.

Roadways Flooded	Score
Greater than 1000 linear feet	5
601 to 1000 linear feet	4
301 to 600 linear feet	3
100 to 300 linear feet	2
Less than 100 linear feet	1
None	0

Cost/Acre/\$100,000

Projects are scored based the cost of the improvement divided by the number of acres affected, divided by \$100,000.

Cost/Acre/\$100,000	Score
Less than 0.6	5
0.6 to 0.9	4
1.0 to 1.2	3
1.3 to 1.5	2
1.6 to 1.8	1
Greater than 1.8	0