

Low Impact Development Objectives	Barrington	Bristol	Burrillville (Harrisville)	Central Falls	Charlestown	Coventry	Cranston	Cumberland	East Greenwich	East Providence
GOAL: Avoid the impacts of development to natural features and pre-development hydrology.										
Objective I: Protect as much undisturbed open space as possible to maintain pre-development hydrology and allow precipitation to naturally infiltrate into the ground.										
1. Has Conservation Development been adopted to protect open space and pre-development hydrology?	No	Yes	Yes	No	No*	Yes	Yes	Yes	No*	No
2. Has a transfer of development rights ordinance been adopted to provide an incentive for landowners to preserve natural lands?	No	No	No	No	No	No	No	No*	No	No
3. Are limits of disturbance required to be marked on all construction plans?	Yes	Yes	Yes	Yes	Yes	Yes	No*	Yes	Yes	Yes
4. Are there limits on lawn area for residential lots to protect open space?	Yes	No	Yes	Yes	No	No	No	No	Yes	No
5. Are undisturbed vegetative areas required on new lots as visual screens?	Yes	No	Yes	Yes	Yes*	Yes	No*	Yes*	Yes	Yes
Objective II: Maximize the protection of natural drainage areas, streams, surface waters, wetlands, and jurisdictional wetland buffers.										
6. Do regulations require or encourage new lots to exclude freshwater and /or coastal wetland jurisdictional areas, to the extent practicable?	Yes	Yes	Yes	Yes	Yes	Yes	No*	Yes	Yes	Yes
7. Do regulations direct building envelopes away from steep slopes, riparian corridors, hydric soils, and floodplains, to the extent practicable?	Yes	Yes	Yes	Yes	No	Yes	No*	Yes*	Yes	Yes
8. Has a community buffer program been created to establish or restore a naturally vegetated buffer system along all surface waters and wetlands to supplement and expand upon the minimum requirements of the DEM and CRMC programs, where applicable?	Yes	No	No*	No	Yes	No*	No	No		No
9. Are zoning setback distances flexible in residential districts to avoid requiring house lot locations to be unnecessarily close to surface waters, wetland, and riparian corridors?	No	No	Yes	Yes	No	No	No	No	Yes	Yes
Objective III: Minimize land disturbance, including clearing and grading, and avoid areas susceptible to erosion and sediment loss.										
10. Has your community adopted an erosion and sediment control ordinance?	Yes	Yes	Yes	Yes	No*	Yes	Yes	Yes	Yes	Yes
11. Did your community adopt a grading ordinance to require applicants to maintain as much natural vegetation as possible and limit clearing, grading, and land-disturbing activities to the minimum needed for construction maintenance and emergency services?	No	No	No*	No*	No*	No*	No*	No	Yes	Yes
12. Has your community adopted a forest cover, tree protection, or tree canopy ordinance?	No	No	No*	No	Yes	No	No	No	Yes	No
13. Do you require permits before removing trees on new or re-development sites?	No	No	No*	No	No	No	No	No	Yes	No
14. Have minimum tree preservation standards been established for new development?	No	No	No*	Yes	No	No*	No	No	Yes	Yes
15. Do capital improvement plans include tree planting as part of project budgets?	No	Yes	Yes	No	No	No	No	Yes*	Yes	No
16. Do you require that public trees removed or damaged during construction be replaced with an equivalent amount of tree diameter? (for example, if a 24-inch diameter tree is removed it should be replaced with six four-inch diameter trees).	No	No	No	Yes	Yes	No*	No*	No*	Yes	No
Objective IV: Minimize soil compaction as a result of construction activities or prior development.										
17. Have you adopted provisions within land development regulations that prohibit the compaction of soils in areas needed for stormwater recharge?	No	No	No	Yes	No	No*	No*	No*	No	No
18. Have you adopted requirements for construction site inspections to ensure that soils are not compacted?	No	No	Yes	Yes	No	No*	No*	No*	No	No

Low Impact Development Objectives	Barrington	Bristol	Burrillville (Harrisville)	Central Falls	Charlestown	Coventry	Cranston	Cumberland	East Greenwich	East Providence
GOAL: Reduce the impacts of land alteration to decrease stormwater volume, increase groundwater recharge, and minimize pollutant loadings from a site.										
Objective V: Provide low-maintenance, native vegetation that encourages retention and minimizes the use of lawns, fertilizers, and pesticides.										
19. Have LID landscaping standards been adopted that require the preservation of as much natural vegetation as possible and encourage low-maintenance native landscaping?	No	No	No*	Yes	Yes	Yes	Yes	No	Yes	No
Objective VI: Minimize impervious surfaces.										
20. Did your community adopt compact growth ordinances such as conservation development, planned development, or mixed use development?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21. Has your community identified growth centers where increased density is appropriate and encouraged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22. Are residential streets required to be as narrow as possible to accommodate traffic volumes without compromising safety?										
22A. Do you require road widths of 22 feet or less for subdivisions of 40 or fewer homes or average daily trips less than 400?	No	No	Yes	N/A	Yes	No	No*	Yes	No	No
22B. Do you require road widths of 26 feet or less for subdivisions of 40-200 homes or average daily trips of 400-2,000?	NA	No	N/A	N/A	Yes	No	No*	Yes	Yes	No
23. Are street right-of-way widths required to be less than 45 feet?	No	No	Yes	No	No	No	No*	No	Yes	No
24. Are driveway lengths and width required to be reduced to the extent possible with pervious surfaces and shared driveways encouraged wherever appropriate?										
24A. Do you require driveways to be nine feet or less (one lane) and 18 feet or less (two lanes)?	No	No	No*	N/A	No	No	No*	No	No	No
24B. Do you allow pervious surfaces to be used for residential driveways?	Yes	Yes	Yes	N/A	Yes	Yes	No*	Yes	Yes	Yes
24C. Do you allow shared driveways to be used in residential developments?	Yes	Yes	Yes	Yes	Yes	Yes	No*	Yes*	No	Yes
25. Do you allow the flexibility with curbs in residential streets to encourage side-of-the-road drainage into vegetated open swales,, where possible?	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No*	No	Yes
26. Where curbs are needed, do you allow opening in curbs that allow runoff to flow into swales?	Yes	Yes	Yes	N/A	Yes	Yes	No	Yes	Yes	N/A
27. Have flexible sidewalk design standards been adopted to limit impervious cover?										
27A. Is the minimum sidewalk width four feet or less?	No (4.5 ft)	No	No*	Yes	N/A	Yes	No*	Yes*	Yes	No (5 ft)
27B. Do you require sidewalks on one side of the street only in low-density neighborhoods?	Yes	Yes	Yes	No	N/A	Yes	No*	Yes*	Yes	No
27C. Are sidewalks required to be gently sloped so that they drain into the front yard rather than the street?	No	No	No	N/A	N/A	No	No	No*	Yes	No
27D. Can alternative pedestrian access such as trails or unpaved footpaths be used instead of sidewalks?	No	No	Yes	Yes	Yes	Yes	Yes	No*	No	No
27E. Can pervious surfaces be used for sidewalks?	No	No	Yes	No	No	No	No	Yes*	No	No
28. Did your community modify the dimension, design, and surface material of cul-de-sacs to reduce total impervious cover?										
28A. Is the minimum radius allowed for cul-de-sacs less than 45 feet?	No (50 ft)	Yes	Yes	No	No	No	No*	No	No	No (50 ft)
28B. Can a landscaped island or native vegetation be within the cul-de-sac?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes
28C. Are alternative turnarounds allowed such as hammerheads or tees?	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes

Low Impact Development Objectives	Barrington	Bristol	Burrillville (Harrisville)	Central Falls	Charlestown	Coventry	Cranston	Cumberland	East Greenwich	East Providence
29. Have both minimum and maximum parking ratios been adopted to provide adequate parking while reducing excess impervious cover?	Yes	Yes	No	N/A	No*	No*	No*	No*	No	Yes
30. Do you allow pervious materials to be used for parking areas and overflow parking?	Yes	Yes	Yes	Yes	N/A	Yes	No*	Yes	Yes	No
31. Are parking ratios reduced if the site is served by mass transit or has good pedestrian access?	No	Yes	Yes	Yes	No	Yes	No	No*	No	Yes
32. Is shared parking encouraged and implemented wherever feasible in order to reduce total impervious cover?	No	Yes	Yes	N/A	Yes	Yes	Yes	No*	Yes	Yes
33. Do off-site parking allowances exist to accommodate re-development and mixed-use compact growth?	Yes	Yes	Yes	N/A	Yes	No	No	Yes	No	Yes
34. Are parking stalls and aisles reduced to the extent feasible in order to decrease total impervious cover?										
34A. Are the minimum stall dimensions nine feet wide by 18 feet long?	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No*
34B. Is 20% or more of the parking lot required to have smaller dimensions (8 feet by 16 feet) for compact cars?	No	Yes	No	No	No	No	No	No	No	No
35. Are parking lot landscaping requirements flexible and do they encourage LID techniques?										
35A. Do parking lots of ten or more spaces require that 10% of the parking lot area be dedicated to landscaped areas that can include LID stormwater practices?	No	No	No	No	Yes*	Yes	Yes	No	Yes	Yes
35B. Is landscaping required within parking areas to "break up" pavement at fixed intervals?	Yes	Yes	No	Yes	Yes*	Yes	Yes	No	Yes	Yes
35C. Is a 25-30% tree canopy coverage over on-site parking lots required?	No	No (20%)	No	No	Yes*	No	No	No	No	No (20%)
36. Have impervious cover limits been adopted to reduce impervious cover on a community or partial-community-basis?	Yes (65%)	No	No*	No	No	Yes	No	Yes	No	Yes
GOAL: Manage the impacts at the source.										
Objective VII: Infiltrate precipitation as close as possible to the point it reaches the ground using vegetated conveyance and treatment systems.										
37. Have you amended regulations to require all development projects comply with LID pursuant to the <i>Rhode Island Stormwater Design and Installation Standards Manual</i> ?	No	Yes	Yes	No	Yes*	No*	Yes*	No*	No*	Yes
38. Have you revised regulations to allow and encourage LID vegetated treatment systems such as bioretention, swales, and filter strips to promote recharge and the treatment of runoff?	No	Yes	Yes	No	Yes	No*	Yes*	No*	No	Yes
Objective VIII: Break up or disconnect the flow of runoff over impervious surfaces.										
39. Have you amended regulations to encourage runoff to be diverted over pervious surfaces to foster infiltration, runoff reduction, and pollutant removal, where appropriate?	No	Yes	Yes	Yes	No	No	Yes*	No*	No	Yes
Objective IX: Provide source controls to prevent or minimize pollutants in stormwater.										
40. Do you encourage or require appropriate pet waste disposal to prevent pet waste from entering stormwater runoff?	No	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes
41. Are commercial and industrial developments required to sweep their impervious areas on an annual basis?	No	No	No	No	No	No	No	No	Yes	No

Low Impact Development Objectives	Barrington	Bristol	Burrillville (Harrisville)	Central Falls	Charlestown	Coventry	Cranston	Cumberland	East Greenwich	East Providence
42. Is street sweeping done regularly on community streets to limit pollutant transport to waterbodies and reduce maintenance of catch basins?	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
43. Are community road salt storage piles covered?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	Yes	Yes
44. Has a community wastewater management district been adopted to encourage or require all onsite wastewater treatment systems be inspected and maintained regularly?	N/A*	Yes	No	N/A	Yes	No	No*	No*	No*	N/A*
45. Have you adopted a stormwater utility district to manage the existing impacts of stormwater runoff?	No	No	N/A	No	No	No	No*	No*	No	No
Objective X: Re-vegetate previously cleared areas to help restore groundwater recharge and pollutant removal.										
46. Have regulations been adopted to encourage re-vegetation with native species, where possible?	No	No	No*	No	Yes*	Yes	No*	No*	No	Yes
BONUS										
47. Did you revise your comprehensive plan to include the three goals and then objectives described above?	No	No	No*	Yes	No*	No*	Yes	No*	Yes*	No

Contact(s) Name: Phillip Hervey Diane Williamson Ed Tanner Tom Kravitz Steve Larric Ashley Hahn Morr Paul Sprague Jacob Peabody Peter Lapolla Kelley Morris Lisa Bourbonna Diane Feather

Phone Number: 401-247-1900 401-568-4300 x 1 401-727-74 401-364-1225 401-822-9184 401-780-3222 401-728-2400 401-886-8644 401-435-7531 x1

E-mail: phervey@barri dianew@brist tkravitz@burrillvil slarrick@ce Ahahn-Morris@ch psprague@coventry plapolla@cra kmorris@cumberl lbourbon@eastg Dfeather@cityof
olri.us etanner@bris tolri.us ri.org jpeabody@coventry ri.org nstonri.org

Low Impact Development Objectives	Exeter	Foster	Glocester (Chepachet)	Hopkinton	Jamestown	Johnston	Lincoln	Little Compton*	Middletown	Narragansett
GOAL: Avoid the impacts of development to natural features and pre-development hydrology.										
Objective I: Protect as much undisturbed open space as possible to maintain pre-development hydrology and allow precipitation to naturally infiltrate into the ground.										
1. Has Conservation Development been adopted to protect open space and pre-development hydrology?	Yes	No*	Yes	No	No*	Yes	No	No	Yes	No*
2. Has a transfer of development rights ordinance been adopted to provide an incentive for landowners to preserve natural lands?	Yes	No	No	No	No	No	No	No	No	Yes*
3. Are limits of disturbance required to be marked on all construction plans?	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No*
4. Are there limits on lawn area for residential lots to protect open space?	No	No*	No	No	No	Yes	No	No	No	Yes*
5. Are undisturbed vegetative areas required on new lots as visual screens?	Yes	Yes*	Yes	Yes*	Yes*	No	No	No	Yes*	Yes*
Objective II: Maximize the protection of natural drainage areas, streams, surface waters, wetlands, and jurisdictional wetland buffers.										
6. Do regulations require or encourage new lots to exclude freshwater and /or coastal wetland jurisdictional areas, to the extent practicable?	Yes	Yes	Yes	Yes	No*	No	Yes	Yes	No*	Yes
7. Do regulations direct building envelopes away from steep slopes, riparian corridors, hydric soils, and floodplains, to the extent practicable?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No*	Yes
8. Has a community buffer program been created to establish or restore a naturally vegetated buffer system along all surface waters and wetlands to supplement and expand upon the minimum requirements of the DEM and CRMC programs, where applicable?	No	Yes	No	No	Yes	No	No	No	No*	Yes
9. Are zoning setback distances flexible in residential districts to avoid requiring house lot locations to be unnecessarily close to surface waters, wetland, and riparian corridors?	No*	No*	No	Yes	No	No	No	No	No*	No
Objective III: Minimize land disturbance, including clearing and grading, and avoid areas susceptible to erosion and sediment loss.										
10. Has your community adopted an erosion and sediment control ordinance?	Yes	Yes	Yes	No*	Yes	Yes	Yes	No	Yes	Yes
11. Did your community adopt a grading ordinance to require applicants to maintain as much natural vegetation as possible and limit clearing, grading, and land-disturbing activities to the minimum needed for construction maintenance and emergency services?	No	No*	No*	No	Yes*	Yes	No	No	No*	No
12. Has your community adopted a forest cover, tree protection, or tree canopy ordinance?	No	No	No	No	No	No	No	No	Yes*	Yes*
13. Do you require permits before removing trees on new or re-development sites?	No	No	Yes*	No	No	Yes	No	No	Yes*	Yes
14. Have minimum tree preservation standards been established for new development?	No	No	No	No*	No*	Yes	No	No	Yes*	No
15. Do capital improvement plans include tree planting as part of project budgets?	No	No	No	No	Yes	No	No	N/A	No	No*
16. Do you require that public trees removed or damaged during construction be replaced with an equivalent amount of tree diameter? (for example, if a 24-inch diameter tree is removed it should be replaced with six four-inch diameter trees).	No	No*	Yes	No	Yes	Yes	No	No	Yes	Yes
Objective IV: Minimize soil compaction as a result of construction activities or prior development.										
17. Have you adopted provisions within land development regulations that prohibit the compaction of soils in areas needed for stormwater recharge?	No	No	Yes	No	No	No*	No	No	N/A*	No
18. Have you adopted requirements for construction site inspections to ensure that soils are not compacted?	No	N/A*	No	No	No	No*	No	No	N/A*	No

Low Impact Development Objectives	Exeter	Foster	Glocester (Chepachet)	Hopkinton	Jamestown	Johnston	Lincoln	Little Compton*	Middletown	Narragansett
GOAL: Reduce the impacts of land alteration to decrease stormwater volume, increase groundwater recharge, and minimize pollutant loadings from a site.										
Objective V: Provide low-maintenance, native vegetation that encourages retention and minimizes the use of lawns, fertilizers, and pesticides.										
19. Have LID landscaping standards been adopted that require the preservation of as much natural vegetation as possible and encourage low-maintenance native landscaping?	No	No*	No*	No*	No	No	No	No	Yes	Yes
Objective VI: Minimize impervious surfaces.										
20. Did your community adopt compact growth ordinances such as conservation development, planned development, or mixed use development?	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
21. Has your community identified growth centers where increased density is appropriate and encouraged?	Yes	No*	Yes	No	Yes*	N/A	Yes	No	Yes	Yes*
22. Are residential streets required to be as narrow as possible to accommodate traffic volumes without compromising safety?										
22A. Do you require road widths of 22 feet or less for subdivisions of 40 or fewer homes or average daily trips less than 400?	Yes	N/A	Yes	N/A	N/A	No	No	No	No	No
22B. Do you require road widths of 26 feet or less for subdivisions of 40-200 homes or average daily trips of 400-2,000?	Yes	N/A	No	N/A	Yes	Yes	No	Yes	Yes	Yes
23. Are street right-of-way widths required to be less than 45 feet?	Yes	No	Yes	No	Yes*	No	No	Yes	No	No*
24. Are driveway lengths and width required to be reduced to the extent possible with pervious surfaces and shared driveways encouraged wherever appropriate?										
24A. Do you require driveways to be nine feet or less (one lane) and 18 feet or less (two lanes)?	No	No	No	Yes	No	No	No	No	No	No
24B. Do you allow pervious surfaces to be used for residential driveways?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
24C. Do you allow shared driveways to be used in residential developments?	Yes	Yes*	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
25. Do you allow the flexibility with curbs in residential streets to encourage side-of-the-road drainage into vegetated open swales,, where possible?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
26. Where curbs are needed, do you allow opening in curbs that allow runoff to flow into swales?	Yes	N/A	Yes	Yes	Yes	Yes	No	Yes	Yes	No
27. Have flexible sidewalk design standards been adopted to limit impervious cover?										
27A. Is the minimum sidewalk width four feet or less?	N/A	N/A	N/A	No	Yes	No	Yes	No	Yes	No
27B. Do you require sidewalks on one side of the street only in low-density neighborhoods?	N/A	N/A	N/A	No*	No	Yes	Yes	No	No	Yes*
27C. Are sidewalks required to be gently sloped so that they drain into the front yard rather than the street?	N/A	N/A	N/A	No	N/A	No	No	No	No	No
27D. Can alternative pedestrian access such as trails or unpaved footpaths be used instead of sidewalks?	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No	No
27E. Can pervious surfaces be used for sidewalks?	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
28. Did your community modify the dimension, design, and surface material of cul-de-sacs to reduce total impervious cover?										
28A. Is the minimum radius allowed for cul-de-sacs less than 45 feet?	Yes	No	Yes	No	No	No (50 ft)	No	No	No (50 ft.)	No (50 ft.)
28B. Can a landscaped island or native vegetation be within the cul-de-sac?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes
28C. Are alternative turnarounds allowed such as hammerheads or tees?	Yes	Yes	Yes	Yes	Yes*	Yes	No	Yes	No	Yes

Low Impact Development Objectives	Exeter	Foster	Glocester (Chepachet)	Hopkinton	Jamestown	Johnston	Lincoln	Little Compton*	Middletown	Narragansett
29. Have both minimum and maximum parking ratios been adopted to provide adequate parking while reducing excess impervious cover?	Yes	No*	Yes	No	No*	Yes	No	No	Yes	No*
30. Do you allow pervious materials to be used for parking areas and overflow parking?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31. Are parking ratios reduced if the site is served by mass transit or has good pedestrian access?	N/A	N/A	No	No	Yes*	Yes	No	No	No	No
32. Is shared parking encouraged and implemented wherever feasible in order to reduce total impervious cover?	Yes	No*	Yes	Yes	Yes	Yes*	Yes	No	Yes	Yes
33. Do off-site parking allowances exist to accommodate re-development and mixed-use compact growth?	N/A	N/A	Yes	No	Yes	Yes*	No	No	Yes	No*
34. Are parking stalls and aisles reduced to the extent feasible in order to decrease total impervious cover?										
34A. Are the minimum stall dimensions nine feet wide by 18 feet long?	No	N/A	No	Yes	Yes	No	No	No	Yes	Yes
34B. Is 20% or more of the parking lot required to have smaller dimensions (8 feet by 16 feet) for compact cars?	No	N/A	No	No	Yes	No	No	No	No	No
35. Are parking lot landscaping requirements flexible and do they encourage LID techniques?										
35A. Do parking lots of ten or more spaces require that 10% of the parking lot area be dedicated to landscaped areas that can include LID stormwater practices?	No	No*	No	Yes	No	No	No	No	Yes	No
35B. Is landscaping required within parking areas to "break up" pavement at fixed intervals?	Yes	No*	Yes	Yes	Yes	Yes	Yes	No	Yes	No
35C. Is a 25-30% tree canopy coverage over on-site parking lots required?	No	No*	No	No	No	No (20%)	No	No	Yes	No
36. Have impervious cover limits been adopted to reduce impervious cover on a community or partial-community-basis?	No	No	No	Yes	Yes	No	No	No	No	Yes
GOAL: Manage the impacts at the source.										
Objective VII: Infiltrate precipitation as close as possible to the point it reaches the ground using vegetated conveyance and treatment systems.										
37. Have you amended regulations to require all development projects comply with LID pursuant to the <i>Rhode Island Stormwater Design and Installation Standards Manual</i> ?	Yes	No*	No	Yes	No	Yes	Yes	No	Yes	No*
38. Have you revised regulations to allow and encourage LID vegetated treatment systems such as bioretention, swales, and filter strips to promote recharge and the treatment of runoff?	Yes	Yes	No*	Yes	Yes	Yes	Yes	Yes	Yes	No*
Objective VIII: Break up or disconnect the flow of runoff over impervious surfaces.										
39. Have you amended regulations to encourage runoff to be diverted over pervious surfaces to foster infiltration, runoff reduction, and pollutant removal, where appropriate?	Yes	No*	No	Yes	Yes*	No	Yes	No	Yes	Yes
Objective IX: Provide source controls to prevent or minimize pollutants in stormwater.										
40. Do you encourage or require appropriate pet waste disposal to prevent pet waste from entering stormwater runoff?	No	No	No	No	Yes	Yes	No	No	Yes	No
41. Are commercial and industrial developments required to sweep their impervious areas on an annual basis?	No	No*	No	No	No	Yes	No	No	Yes*	No*

Low Impact Development Objectives	Exeter	Foster	Glocester (Chepachet)	Hopkinton	Jamestown	Johnston	Lincoln	Little Compton*	Middletown	Narragansett
42. Is street sweeping done regularly on community streets to limit pollutant transport to waterbodies and reduce maintenance of catch basins?	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
43. Are community road salt storage piles covered?	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
44. Has a community wastewater management district been adopted to encourage or require all onsite wastewater treatment systems be inspected and maintained regularly?	No	No*	No	Yes	Yes	Yes	N/A*	No	N/A*	No*
45. Have you adopted a stormwater utility district to manage the existing impacts of stormwater runoff?	No	No	No	No	No*	No	No	No	No	No
Objective X: Re-vegetate previously cleared areas to help restore groundwater recharge and pollutant removal.										
46. Have regulations been adopted to encourage re-vegetation with native species, where possible?	No	No*	No*	No	Yes*	No	No	No	Yes*	No*
BONUS										
47. Did you revise your comprehensive plan to include the three goals and then objectives described above?	Yes*	No*	No*	No*	No	No	No	No	No	No

Contact(s) Name: Scott Miller, Ann-Marie Raymond Goff, Jim Lamphere, Lisa Bryer, Pamela Sherri Al Ranaldi, Mike Steers, Ron Wolanski, Michael DeLuca
Lynda St. Amour, Justin Jobin, Bob Mushen

Phone Number: 401-222-4400, 401-392-9400, 401-568-6206 x 2, 401-377-7770, 401-423-7210, 401-231-4000, 401-333-8433, 401-849-4027, 401-782-0632

E-mail: scott.miller@townofexeter.com, aignasher@townoffosterri.com, rayyg@glocesterri.com, planner@hopkintonri.com, lbryer@jamestownri.com, planner@johnstonri.com, aranaldi@lincolncountyri.com, amsteers@gmail.com, rmushen@tlcri.com, rwolanski@middletownri.com, mdeluca@narragansettri.com

Low Impact Development Objectives	New Shoreham	Newport	North Kingstown	North Providence	North Smithfield (Slatersville)	Pawtucket	Portsmouth	Providence
GOAL: Avoid the impacts of development to natural features and pre-development hydrology.								
Objective I: Protect as much undisturbed open space as possible to maintain pre-development hydrology and allow precipitation to naturally infiltrate into the ground.								
1. Has Conservation Development been adopted to protect open space and pre-development hydrology?	Yes	No	Yes	Yes	Yes	NA	No	No
2. Has a transfer of development rights ordinance been adopted to provide an incentive for landowners to preserve natural lands?	No	No	Yes	Yes	No	No	No	No
3. Are limits of disturbance required to be marked on all construction plans?	No*	No*	Yes	Yes	Yes	Yes	Yes	No
4. Are there limits on lawn area for residential lots to protect open space?	No	No	No*	Yes	No	No	No	No
5. Are undisturbed vegetative areas required on new lots as visual screens?	Yes*	No	No*	Yes*	No	NA	No	No
Objective II: Maximize the protection of natural drainage areas, streams, surface waters, wetlands, and jurisdictional wetland buffers.								
6. Do regulations require or encourage new lots to exclude freshwater and /or coastal wetland jurisdictional areas, to the extent practicable?	Yes	Yes	Yes	No*	Yes	No	Yes	Yes
7. Do regulations direct building envelopes away from steep slopes, riparian corridors, hydric soils, and floodplains, to the extent practicable?	Yes	No	Yes	Yes	No	Yes	Yes	Yes
8. Has a community buffer program been created to establish or restore a naturally vegetated buffer system along all surface waters and wetlands to supplement and expand upon the minimum requirements of the DEM and CRMC programs, where applicable?	No	No	Yes	No*	No	No	No	No
9. Are zoning setback distances flexible in residential districts to avoid requiring house lot locations to be unnecessarily close to surface waters, wetland, and riparian corridors?	Yes*	No*	No	No*	Yes	Yes	Yes	No
Objective III: Minimize land disturbance, including clearing and grading, and avoid areas susceptible to erosion and sediment loss.								
10. Has your community adopted an erosion and sediment control ordinance?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
11. Did your community adopt a grading ordinance to require applicants to maintain as much natural vegetation as possible and limit clearing, grading, and land-disturbing activities to the minimum needed for construction maintenance and emergency services?	No	Yes	Yes	Yes	No	No	No	No
12. Has your community adopted a forest cover, tree protection, or tree canopy ordinance?	No	Yes	Yes	No	No	No	Yes	No
13. Do you require permits before removing trees on new or re-development sites?	No	No	No	No	No	No*	No	No
14. Have minimum tree preservation standards been established for new development?	No	No	No	Yes	No	No*	No	Yes
15. Do capital improvement plans include tree planting as part of project budgets?	No	No	Yes	Yes	Yes	Yes	No	Yes
16. Do you require that public trees removed or damaged during construction be replaced with an equivalent amount of tree diameter? (for example, if a 24-inch diameter tree is removed it should be replaced with six four-inch diameter trees).	No	Yes*	Yes	No	No	Yes	No	No
Objective IV: Minimize soil compaction as a result of construction activities or prior development.								
17. Have you adopted provisions within land development regulations that prohibit the compaction of soils in areas needed for stormwater recharge?	No	Yes	No*	No	No	No	No	No
18. Have you adopted requirements for construction site inspections to ensure that soils are not compacted?	No	No	No*	No	No	No	No	No

Low Impact Development Objectives	New Shoreham	Newport	North Kingstown	North Providence	North Smithfield (Slatersville)	Pawtucket	Portsmouth	Providence
GOAL: Reduce the impacts of land alteration to decrease stormwater volume, increase groundwater recharge, and minimize pollutant loadings from a site.								
Objective V: Provide low-maintenance, native vegetation that encourages retention and minimizes the use of lawns, fertilizers, and pesticides.								
19. Have LID landscaping standards been adopted that require the preservation of as much natural vegetation as possible and encourage low-maintenance native landscaping?	No*	Yes*	Yes	No*	No	Yes	No	No
Objective VI: Minimize impervious surfaces.								
20. Did your community adopt compact growth ordinances such as conservation development, planned development, or mixed use development?	Yes	Yes	Yes	No*	Yes	Yes	Yes	No
21. Has your community identified growth centers where increased density is appropriate and encouraged?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
22. Are residential streets required to be as narrow as possible to accommodate traffic volumes without compromising safety?								
22A. Do you require road widths of 22 feet or less for subdivisions of 40 or fewer homes or average daily trips less than 400?	Yes	No	Yes	No*	No	N/A	No	N/A
22B. Do you require road widths of 26 feet or less for subdivisions of 40-200 homes or average daily trips of 400-2,000?	N/A	No	Yes	No*	No	N/A	No	N/A
23. Are street right-of-way widths required to be less than 45 feet?	Yes	Yes*	No (50 ft)	No	No	N/A	No	N/A
24. Are driveway lengths and width required to be reduced to the extent possible with pervious surfaces and shared driveways encouraged wherever appropriate?								
24A. Do you require driveways to be nine feet or less (one lane) and 18 feet or less (two lanes)?	No*	N/A	No	No	No	No	No	No
24B. Do you allow pervious surfaces to be used for residential driveways?	Yes*	N/A	Yes	No	Yes	No	No	Yes
24C. Do you allow shared driveways to be used in residential developments?	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
25. Do you allow the flexibility with curbs in residential streets to encourage side-of-the-road drainage into vegetated open swales,, where possible?	Yes	Yes	Yes	Yes	Yes	N/A	Yes	No
26. Where curbs are needed, do you allow opening in curbs that allow runoff to flow into swales?	N/A	Yes	Yes	Yes	Yes	N/A	Yes	No
27. Have flexible sidewalk design standards been adopted to limit impervious cover?								
27A. Is the minimum sidewalk width four feet or less?	Yes	Yes	No*	Yes	Yes	N/A	No	No
27B. Do you require sidewalks on one side of the street only in low-density neighborhoods?	Yes*	N/A	No	No	Yes	Yes	No	N/A
27C. Are sidewalks required to be gently sloped so that they drain into the front yard rather than the street?	No	Yes	No	No	No	N/A	No	No
27D. Can alternative pedestrian access such as trails or unpaved footpaths be used instead of sidewalks?	Yes*	Yes	Yes	N/A	Yes	Yes	Yes	Yes
27E. Can pervious surfaces be used for sidewalks?	Yes*	Yes	Yes	Yes	Yes	No	No	Yes
28. Did your community modify the dimension, design, and surface material of cul-de-sacs to reduce total impervious cover?								
28A. Is the minimum radius allowed for cul-de-sacs less than 45 feet?	Yes	No	No (50 ft)	No	Yes	No	No	N/A
28B. Can a landscaped island or native vegetation be within the cul-de-sac?	Yes	Yes	Yes	Yes	Yes	No	Yes	N/A
28C. Are alternative turnarounds allowed such as hammerheads or tees?	Yes	Yes	Yes	Yes	Yes	No	No	N/A

Low Impact Development Objectives	New Shoreham	Newport	North Kingstown	North Providence	North Smithfield (Slatersville)	Pawtucket	Portsmouth	Providence
29. Have both minimum and maximum parking ratios been adopted to provide adequate parking while reducing excess impervious cover?	No*	No	Yes	Yes	No	Yes	Yes	No
30. Do you allow pervious materials to be used for parking areas and overflow parking?	Yes *	Yes*	Yes	Yes	Yes	Yes	Yes	Yes
31. Are parking ratios reduced if the site is served by mass transit or has good pedestrian access?	No	No	Yes	N/A	No	No	No	Yes
32. Is shared parking encouraged and implemented wherever feasible in order to reduce total impervious cover?	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
33. Do off-site parking allowances exist to accommodate re-development and mixed-use compact growth?	No	No	Yes	Yes	No	Yes	N/A	Yes
34. Are parking stalls and aisles reduced to the extent feasible in order to decrease total impervious cover?								
34A. Are the minimum stall dimensions nine feet wide by 18 feet long?	No	Yes	No	Yes	Yes	Yes	No	N/A
34B. Is 20% or more of the parking lot required to have smaller dimensions (8 feet by 16 feet) for compact cars?	No	No*	No	Yes	No	No	No	No
35. Are parking lot landscaping requirements flexible and do they encourage LID techniques?								
35A. Do parking lots of ten or more spaces require that 10% of the parking lot area be dedicated to landscaped areas that can include LID stormwater practices?	No	No	No	Yes	No	Yes	No	No
35B. Is landscaping required within parking areas to "break up" pavement at fixed intervals?	Yes	Yes	Yes	Yes	No	Yes	Yes	No
35C. Is a 25-30% tree canopy coverage over on-site parking lots required?	No	No	No	No	No	No	No	No
36. Have impervious cover limits been adopted to reduce impervious cover on a community or partial-community-basis?	No	No	Yes	No	Yes	No	No	No
GOAL: Manage the impacts at the source.								
Objective VII: Infiltrate precipitation as close as possible to the point it reaches the ground using vegetated conveyance and treatment systems.								
37. Have you amended regulations to require all development projects comply with LID pursuant to the <i>Rhode Island Stormwater Design and Installation Standards Manual</i> ?	Yes	Yes	No*	Yes	Yes	No	No	No
38. Have you revised regulations to allow and encourage LID vegetated treatment systems such as bioretention, swales, and filter strips to promote recharge and the treatment of runoff?	No	Yes	Yes	No*	Yes	Yes	No	No
Objective VIII: Break up or disconnect the flow of runoff over impervious surfaces.								
39. Have you amended regulations to encourage runoff to be diverted over pervious surfaces to foster infiltration, runoff reduction, and pollutant removal, where appropriate?	Yes	Yes	Yes	No*	Yes	Yes	No	Yes
Objective IX: Provide source controls to prevent or minimize pollutants in stormwater.								
40. Do you encourage or require appropriate pet waste disposal to prevent pet waste from entering stormwater runoff?	No	Yes	Yes	Yes	Yes	No	Yes	No
41. Are commercial and industrial developments required to sweep their impervious areas on an annual basis?	No	No	Yes*	No*	Yes	No	N/A	No

Low Impact Development Objectives	Richmond	Scituate	Smithfield (Esmond)	South Kingstown	Tiverton	Warren	Warwick	West Greenwich	West Warwick	Westerly	Woonsocket
GOAL: Avoid the impacts of development to natural features and pre-development hydrology.											
Objective I: Protect as much undisturbed open space as possible to maintain pre-development hydrology and allow precipitation to naturally infiltrate into the ground.											
1. Has Conservation Development been adopted to protect open space and pre-development hydrology?	Yes	No*	Yes	Yes	Yes	No	Yes	Yes*	N/A	N/A	Yes
2. Has a transfer of development rights ordinance been adopted to provide an incentive for landowners to preserve natural lands?	No	No	No	No	No	Yes	No	No	N/A	No	No
3. Are limits of disturbance required to be marked on all construction plans?	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No
4. Are there limits on lawn area for residential lots to protect open space?	No	No	No	Yes	Yes	No	No	No*	Yes	No	No
5. Are undisturbed vegetative areas required on new lots as visual screens?	Yes	Yes*	Yes*	No	Yes	No	No*	Yes	No	No*	No
Objective II: Maximize the protection of natural drainage areas, streams, surface waters, wetlands, and jurisdictional wetland buffers.											
6. Do regulations require or encourage new lots to exclude freshwater and /or coastal wetland jurisdictional areas, to the extent practicable?	Yes	Yes	Yes*	Yes	Yes	No	Yes*	Yes	Yes	Yes	No
7. Do regulations direct building envelopes away from steep slopes, riparian corridors, hydric soils, and floodplains, to the extent practicable?	No	Yes	No*	Yes	Yes	Yes	Yes	No	No	No	No
8. Has a community buffer program been created to establish or restore a naturally vegetated buffer system along all surface waters and wetlands to supplement and expand upon the minimum requirements of the DEM and CRMC programs, where applicable?	No	Yes	Yes	No	Yes*	No	No	No	Yes	No	No
9. Are zoning setback distances flexible in residential districts to avoid requiring house lot locations to be unnecessarily close to surface waters, wetland, and riparian corridors?	N/A	Yes	No	Yes	Yes*	No	No*	No	No	No	No
Objective III: Minimize land disturbance, including clearing and grading, and avoid areas susceptible to erosion and sediment loss.											
10. Has your community adopted an erosion and sediment control ordinance?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11. Did your community adopt a grading ordinance to require applicants to maintain as much natural vegetation as possible and limit clearing, grading, and land-disturbing activities to the minimum needed for construction maintenance and emergency services?	No	Yes	Yes	No	No	No	No	No	Yes	No	No
12. Has your community adopted a forest cover, tree protection, or tree canopy ordinance?	Yes	No	Yes	Yes	No	No	No	No	Yes	No*	No
13. Do you require permits before removing trees on new or re-development sites?	No	No	Yes	No	No*	No	Yes	No	No	No*	No
14. Have minimum tree preservation standards been established for new development?	No	Yes	Yes	Yes	Yes	No	Yes*	No	No	No*	No
15. Do capital improvement plans include tree planting as part of project budgets?	No	No	No	N/A *	No	No	No	No	No	Yes	No
16. Do you require that public trees removed or damaged during construction be replaced with an equivalent amount of tree diameter? (for example, if a 24-inch diameter tree is removed it should be replaced with six four-inch diameter trees).	No	Yes	No	Yes	Yes*	No	Yes	No	No	No	No
Objective IV: Minimize soil compaction as a result of construction activities or prior development.											
17. Have you adopted provisions within land development regulations that prohibit the compaction of soils in areas needed for stormwater recharge?	No	No	No	No	No	No	Yes	No	No*	No*	No
18. Have you adopted requirements for construction site inspections to ensure that soils are not compacted?	No	No	No*	No	No	Yes	Yes*	No	No*	No*	No

Low Impact Development Objectives	Richmond	Scituate	Smithfield (Esmond)	South Kingstown	Tiverton	Warren	Warwick	West Greenwich	West Warwick	Westerly	Woonsocket
GOAL: Reduce the impacts of land alteration to decrease stormwater volume, increase groundwater recharge, and minimize pollutant loadings from a site.											
Objective V: Provide low-maintenance, native vegetation that encourages retention and minimizes the use of lawns, fertilizers, and pesticides.											
19. Have LID landscaping standards been adopted that require the preservation of as much natural vegetation as possible and encourage low-maintenance native landscaping?	Yes	Yes	Yes	No	Yes	No	Yes*	Yes	No	No	No
Objective VI: Minimize impervious surfaces.											
20. Did your community adopt compact growth ordinances such as conservation development, planned development, or mixed use development?	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	No	Yes	Yes	Yes
21. Has your community identified growth centers where increased density is appropriate and encouraged?	Yes	Yes*	Yes	Yes	No	Yes	Yes*	Yes	Yes	Yes	No
22. Are residential streets required to be as narrow as possible to accommodate traffic volumes without compromising safety?											
22A. Do you require road widths of 22 feet or less for subdivisions of 40 or fewer homes or average daily trips less than 400?	Yes	Yes	No*	No*	No	No	No	Yes	No*	Yes*	No
22B. Do you require road widths of 26 feet or less for subdivisions of 40-200 homes or average daily trips of 400-2,000?	N/A	Yes	No*	Yes	No	No	No*	Yes	No*	Yes*	No
23. Are street right-of-way widths required to be less than 45 feet?	No	No	No	No	Yes*	No	No*	No	No*	No	No
24. Are driveway lengths and width required to be reduced to the extent possible with pervious surfaces and shared driveways encouraged wherever appropriate?											
24A. Do you require driveways to be nine feet or less (one lane) and 18 feet or less (two lanes)?	No	No	No	No	No	No	No	No	No	No	No
24B. Do you allow pervious surfaces to be used for residential driveways?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
24C. Do you allow shared driveways to be used in residential developments?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
25. Do you allow the flexibility with curbs in residential streets to encourage side-of-the-road drainage into vegetated open swales,, where possible?	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes*	Yes	No
26. Where curbs are needed, do you allow opening in curbs that allow runoff to flow into swales?	Yes	N/A	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No
27. Have flexible sidewalk design standards been adopted to limit impervious cover?											
27A. Is the minimum sidewalk width four feet or less?	N/A	No	Yes	Yes	No*	No	Yes*	Yes	Yes*	No	No
27B. Do you require sidewalks on one side of the street only in low-density neighborhoods?	N/A	N/A	N/A	No	Yes	No	Yes	No	Yes*	No	No
27C. Are sidewalks required to be gently sloped so that they drain into the front yard rather than the street?	N/A	No	No	N/A	No	No	No	N/A	No	No	No
27D. Can alternative pedestrian access such as trails or unpaved footpaths be used instead of sidewalks?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
27E. Can pervious surfaces be used for sidewalks?	N/A	Yes	Yes	Yes	No*	No	Yes	Yes	Yes	Yes	No
28. Did your community modify the dimension, design, and surface material of cul-de-sacs to reduce total impervious cover?											
28A. Is the minimum radius allowed for cul-de-sacs less than 45 feet?	Yes	No	Yes	Yes	Yes	No	No	Yes	No*	No	No
28B. Can a landscaped island or native vegetation be within the cul-de-sac?	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	No	No*	Yes	Yes
28C. Are alternative turnarounds allowed such as hammerheads or tees?	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No*	Yes	No

Low Impact Development Objectives	Richmond	Scituate	Smithfield (Esmond)	South Kingstown	Tiverton	Warren	Warwick	West Greenwich	West Warwick	Westerly	Woonsocket
29. Have both minimum and maximum parking ratios been adopted to provide adequate parking while reducing excess impervious cover?	No*	No*	No*	No	No	No	No	No	No	No*	No
30. Do you allow pervious materials to be used for parking areas and overflow parking?	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes	No	Yes	Yes
31. Are parking ratios reduced if the site is served by mass transit or has good pedestrian access?	N/A	No*	No	No	N/A	No	No	N/A	No	N/A	No
32. Is shared parking encouraged and implemented wherever feasible in order to reduce total impervious cover?	Yes	Yes*	No*	No	Yes*	No	No	Yes	Yes*	Yes	Yes
33. Do off-site parking allowances exist to accommodate re-development and mixed-use compact growth?	N/A	Yes	No	Yes	Yes*	Yes	Yes	N/A	Yes*	Yes	Yes
34. Are parking stalls and aisles reduced to the extent feasible in order to decrease total impervious cover?											
34A. Are the minimum stall dimensions nine feet wide by 18 feet long?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes	Yes
34B. Is 20% or more of the parking lot required to have smaller dimensions (8 feet by 16 feet) for compact cars?	No	No	No	No	No*	No	No	No	Yes*	No	No
35. Are parking lot landscaping requirements flexible and do they encourage LID techniques?											
35A. Do parking lots of ten or more spaces require that 10% of the parking lot area be dedicated to landscaped areas that can include LID stormwater practices?	No*	Yes	No*	No	No*	No	No	Yes	Yes	Yes	No
35B. Is landscaping required within parking areas to "break up" pavement at fixed intervals?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
35C. Is a 25-30% tree canopy coverage over on-site parking lots required?	No	No	No	No	No	No	No	No	No	No (5-10%)	No
36. Have impervious cover limits been adopted to reduce impervious cover on a community or partial-community-basis?	No	No	Yes	No	Yes*	Yes	No	Yes	No*	Yes	No
GOAL: Manage the impacts at the source.											
Objective VII: Infiltrate precipitation as close as possible to the point it reaches the ground using vegetated conveyance and treatment systems.											
37. Have you amended regulations to require all development projects comply with LID pursuant to the <i>Rhode Island Stormwater Design and Installation Standards Manual</i> ?	Yes	Yes	Yes*	No	Yes	No	Yes*	Yes	Yes	Yes	Yes
38. Have you revised regulations to allow and encourage LID vegetated treatment systems such as bioretention, swales, and filter strips to promote recharge and the treatment of runoff?	Yes	Yes	Yes*	No	Yes	No	Yes*	Yes	Yes	Yes	Yes
Objective VIII: Break up or disconnect the flow of runoff over impervious surfaces.											
39. Have you amended regulations to encourage runoff to be diverted over pervious surfaces to foster infiltration, runoff reduction, and pollutant removal, where appropriate?	Yes	No*	Yes*	No	Yes	No	Yes*	No	Yes	Yes	Yes
Objective IX: Provide source controls to prevent or minimize pollutants in stormwater.											
40. Do you encourage or require appropriate pet waste disposal to prevent pet waste from entering stormwater runoff?	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	No
41. Are commercial and industrial developments required to sweep their impervious areas on an annual basis?	No	No*	Yes	No	No*	No	No	No	No	No	No

Low Impact Development Objectives

GOAL: Avoid the impacts of development to natural features and pre-development hydrology.

Objective I: *Protect as much undisturbed open space as possible to maintain pre-development hydrology and allow precipitation to naturally infiltrate into the ground.*

1. Has Conservation Development been adopted to protect open space and pre-development hydrology?

2. Has a transfer of development rights ordinance been adopted to provide an incentive for landowners to preserve natural lands?

3. Are limits of disturbance required to be marked on all construction plans?

4. Are there limits on lawn area for residential lots to protect open space?

5. Are undisturbed vegetative areas required on new lots as visual screens?

Objective II: *Maximize the protection of natural drainage areas, streams, surface waters, wetlands, and jurisdictional wetland buffers.*

6. Do regulations require or encourage new lots to exclude freshwater and /or coastal wetland jurisdictional areas, to the extent practicable?

7. Do regulations direct building envelopes away from steep slopes, riparian corridors, hydric soils, and floodplains, to the extent practicable?

8. Has a community buffer program been created to establish or restore a naturally vegetated buffer system along all surface waters and wetlands to supplement and expand upon the minimum requirements of the DEM and CRMC programs, where applicable?

9. Are zoning setback distances flexible in residential districts to avoid requiring house lot locations to be unnecessarily close to surface waters, wetland, and riparian corridors?

Objective III: *Minimize land disturbance, including clearing and grading, and avoid areas susceptible to erosion and sediment loss.*

10. Has your community adopted an erosion and sediment control ordinance?

11. Did your community adopt a grading ordinance to require applicants to maintain as much natural vegetation as possible and limit clearing, grading, and land-disturbing activities to the minimum needed for construction maintenance and emergency services?

12. Has your community adopted a forest cover, tree protection, or tree canopy ordinance?

13. Do you require permits before removing trees on new or re-development sites?

14. Have minimum tree preservation standards been established for new development?

15. Do capital improvement plans include tree planting as part of project budgets?

16. Do you require that public trees removed or damaged during construction be replaced with an equivalent amount of tree diameter? (for example, if a 24-inch diameter tree is removed it should be replaced with six four-inch diameter trees).

Objective IV: *Minimize soil compaction as a result of construction activities or prior development.*

17. Have you adopted provisions within land development regulations that prohibit the compaction of soils in areas needed for stormwater recharge?

18. Have you adopted requirements for construction site inspections to ensure that soils are not compacted?

Low Impact Development Objectives

GOAL: Reduce the impacts of land alteration to decrease stormwater volume, increase groundwater recharge, and minimize pollutant loadings from a site.

Objective V: *Provide low-maintenance, native vegetation that encourages retention and minimizes the use of lawns, fertilizers, and pesticides.*

19. Have LID landscaping standards been adopted that require the preservation of as much natural vegetation as possible and encourage low-maintenance native landscaping?

Objective VI: *Minimize impervious surfaces.*

20. Did your community adopt compact growth ordinances such as conservation development, planned development, or mixed use development?

21. Has your community identified growth centers where increased density is appropriate and encouraged?

22. Are residential streets required to be as narrow as possible to accommodate traffic volumes without compromising safety?

22A. Do you require road widths of 22 feet or less for subdivisions of 40 or fewer homes or average daily trips less than 400?

22B. Do you require road widths of 26 feet or less for subdivisions of 40-200 homes or average daily trips of 400-2,000?

23. Are street right-of-way widths required to be less than 45 feet?

24. Are driveway lengths and width required to be reduced to the extent possible with pervious surfaces and shared driveways encouraged wherever appropriate?

24A. Do you require driveways to be nine feet or less (one lane) and 18 feet or less (two lanes)?

24B. Do you allow pervious surfaces to be used for residential driveways?

24C. Do you allow shared driveways to be used in residential developments?

25. Do you allow the flexibility with curbs in residential streets to encourage side-of-the-road drainage into vegetated open swales, where possible?

26. Where curbs are needed, do you allow opening in curbs that allow runoff to flow into swales?

27. Have flexible sidewalk design standards been adopted to limit impervious cover?

27A. Is the minimum sidewalk width four feet or less?

27B. Do you require sidewalks on one side of the street only in low-density neighborhoods?

27C. Are sidewalks required to be gently sloped so that they drain into the front yard rather than the street?

27D. Can alternative pedestrian access such as trails or unpaved footpaths be used instead of sidewalks?

27E. Can pervious surfaces be used for sidewalks?

28. Did your community modify the dimension, design, and surface material of cul-de-sacs to reduce total impervious cover?

28A. Is the minimum radius allowed for cul-de-sacs less than 45 feet?

28B. Can a landscaped island or native vegetation be within the cul-de-sac?

28C. Are alternative turnarounds allowed such as hammerheads or tees?

Low Impact Development Objectives

29. Have both minimum and maximum parking ratios been adopted to provide adequate parking while reducing excess impervious cover?

30. Do you allow pervious materials to be used for parking areas and overflow parking?

31. Are parking ratios reduced if the site is served by mass transit or has good pedestrian access?

32. Is shared parking encouraged and implemented wherever feasible in order to reduce total impervious cover?

33. Do off-site parking allowances exist to accommodate re-development and mixed-use compact growth?

34. Are parking stalls and aisles reduced to the extent feasible in order to decrease total impervious cover?

34A. Are the minimum stall dimensions nine feet wide by 18 feet long?

34B. Is 20% or more of the parking lot required to have smaller dimensions (8 feet by 16 feet) for compact cars?

35. Are parking lot landscaping requirements flexible and do they encourage LID techniques?

35A. Do parking lots of ten or more spaces require that 10% of the parking lot area be dedicated to landscaped areas that can include LID stormwater practices?

35B. Is landscaping required within parking areas to "break up" pavement at fixed intervals?

35C. Is a 25-30% tree canopy coverage over on-site parking lots required?

36. Have impervious cover limits been adopted to reduce impervious cover on a community or partial-community-basis?

GOAL: Manage the impacts at the source.

Objective VII: *Infiltrate precipitation as close as possible to the point it reaches the ground using vegetated conveyance and treatment systems.*

37. Have you amended regulations to require all development projects comply with LID pursuant to the *Rhode Island Stormwater Design and Installation Standards Manual*?

38. Have you revised regulations to allow and encourage LID vegetated treatment systems such as bioretention, swales, and filter strips to promote recharge and the treatment of runoff?

Objective VIII: *Break up or disconnect the flow of runoff over impervious surfaces.*

39. Have you amended regulations to encourage runoff to be diverted over pervious surfaces to foster infiltration, runoff reduction, and pollutant removal, where appropriate?

Objective IX: *Provide source controls to prevent or minimize pollutants in stormwater.*

40. Do you encourage or require appropriate pet waste disposal to prevent pet waste from entering stormwater runoff?

41. Are commercial and industrial developments required to sweep their impervious areas on an annual basis?

Low Impact Development Objectives

42. Is street sweeping done regularly on community streets to limit pollutant transport to waterbodies and reduce maintenance of catch basins?

43. Are community road salt storage piles covered?

44. Has a community wastewater management district been adopted to encourage or require all onsite wastewater treatment systems be inspected and maintained regularly?

45. Have you adopted a stormwater utility district to manage the existing impacts of stormwater runoff?

Objective X: *Re-vegetate previously cleared areas to help restore groundwater recharge and pollutant removal.*

46. Have regulations been adopted to encourage re-vegetation with native species, where possible?

BONUS

47. Did you revise your comprehensive plan to include the three goals and then objectives described above?

Contact(s) Name:

Phone Number:

E-mail:

cketri.org