

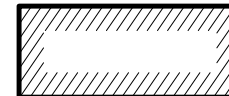




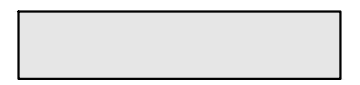


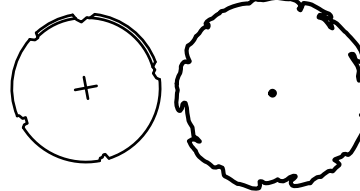
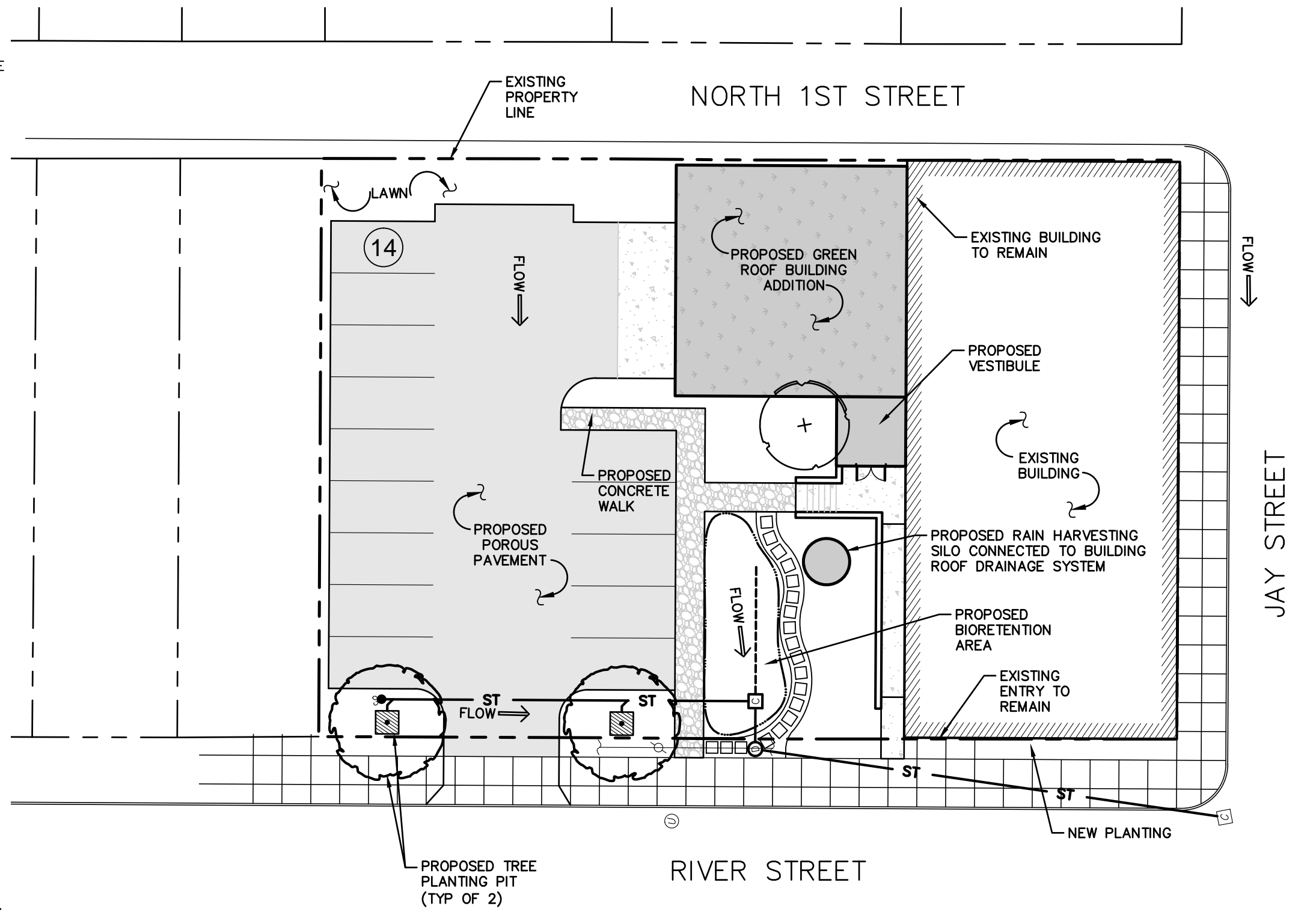
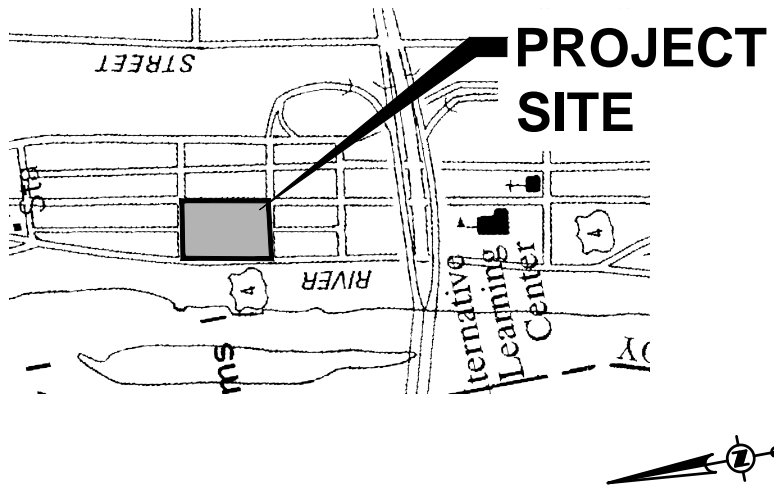


Appendix C: Green Infrastructure Documentation Form

Drawing Name: S:\3\31200-31299\31299\00\ENG\DWG\00_SP1_SITE LAYOUT PLAN_31231.00.dwg Date Printed: Jul 13, 2012, 4:15pm

LEGEND:

-  PROPOSED PROPERTY LINE
-  PROPOSED ADJACENT PROPERTY LINE
-  EXISTING BUILDING
-  PROPOSED BUILDING
-  PROPOSED GREEN ROOF BUILDING
-  PROPOSED SIDEWALK
-  PROPOSED CONCRETE SURFACE
-  POROUS PAVEMENT
-  PROPOSED PARKING COUNT
-  PROPOSED STORM PIPE
-  PROPOSED TREES



ISSUED FOR GREEN INNOVATIVE GRANT USE - NOT FOR CONSTRUCTION

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CHAZEN ENGINEERING, LAND SURVEYING

LANDSCAPE ARCHITECTURE CO., P.C.

Office Locations:

Dutchess County Office:
21 Fox Street
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Phone: (845) 454-3980

Capital District Office:
547 River Street
Troy, New York 12180
Phone: (518) 273-0055

North Country Office:
100 Glen Street
Glens Falls, New York 12801
Phone: (518) 812-0513

CAPITAL DISTRICT COMMUNITY GARDENS

URBAN GROW CENTER

SUSTAINABLE SITE CONCEPT PLAN

CITY OF TROY, RENSELEAR COUNTY, NEW YORK

| | |
|-------------------------|-----------------|
| designed MMF | checked |
| date 7/11/12 | scale 1"=20' |
| project no. 31231.00 | |
| sheet no. SP1 | |

Green Infrastructure for Stormwater Management Documentation Form

1. Community (Check one): Albany Troy Cohoes Rensselaer Watervliet Green Island

2. Project name: The Urban Grow Center

3. Site address: 594 River Street Troy, NY 12180

4. Planning Board Action Taken: Subdivision Approval; Site Plan Approval; Special Use Permit

5. Type(s) of Green Infrastructure (GI) practices employed on the site, check all that apply:

(Please refer to page 2 of this document for a table with descriptions of the practices below)

Runoff Reduction Techniques Employed in Final Application: Conservation of natural areas Sheetflow to riparian buffers or filter strips Vegetated open swale Tree planting / tree box Stream daylighting for redevelopment projects Rain garden Green roof Stormwater planter Rain tank/Cistern Porous Pavement Reduction in paved parking area

6. Estimated runoff reduction volume: 19,215 cu. feet/year

7. Projected water quality benefits: 15,000 gal/year water reuse, 7Lb./year Nitrogen reduction, 56.25 Lb./year Road salt reduction

8. Contact information for engineering / landscape architecture firm or individuals that designed the GI component the project: The Chazen Companies, Michael Flanagan P.E. 518-266-7337 Envision Architects, Jay Stasack, Mike Collard 518-462-1848

9. Contact information for entity responsible for the installation GI component of the project:

Greco Construction was General Contractor 518-465-1165, Harbor Roads was the pavement subcontractor 518-266-0690

10. Does the GI practice have a practice specific maintenance plan? Yes No Basic maintenance responsibility of owner. Porous pavement vacuumed twice yearly by Canaday sweepers@ annual cost of \$600

9a. If yes, please attach a copy of the maintenance plan and include estimated annual cost \$

11. Contact information for entity responsible for maintaining the GI component of the project:

Canaday Sweepers 518-357-0403

12. Name and contact information for person filling out this form: Matthew Schueler Grow Center Planner, Capital Roots 518-274-8685

13. Please attach an 8 ½" x 11" map of the proposed project illustrating the location(s) of GI practices.

14. Comments/notes: Although designed for one inch rain events, our system has weathered several events of more than an inch and has never yet sent water from our rain garden to the sewer.

When completed, the form shall sent by mail, fax or email to:

Appendix D: CSO Volume Reduction, Capture, and Population Data for 2015

| Capture and Percent Reductions for all LTCP Appendix B Projects Completed During 2015 By Type | | | | | | | | |
|---|---|--------------|------------------|--|---------------------------|------------------|-------------------------------|----------------------------------|
| Project Type | Project Name | Project Code | Project Location | Milestone(s) | Appendix B Deadline Dates | Action Performed | Annual Volume Captured (Mgal) | Annual Percent CSO Reduction (%) |
| Separation | George St. Sewer Separation | SSS-04 | Cohoes | Operational Start up and Construction Completion Date | 12/15/2017 | 6/11/2015 | 0.2000 | 0.0016 |
| Separation | Partition St./Broadway Sewer and Drain Improvements | SSS-02 | Rensselaer | Operational Start up and Construction Completion Date | 12/31/2015 | 12/29/2015 | 2.0000 | 0.0016 |
| Total by separation | | | | | | | 2.2000 | 0.0032 |
| Green Infrastructure | North Swan St. Green Infrastructure Project | GI-02 | Albany | Construction Completion Date & Operational Start Up Date | 12/15/2015 | 11/20/2015 | 0.0094 | 0.0049 |
| Total by green infrastructure | | | | | | | 0.0094 | 0.0049 |
| Best Management Practices | Upgrade Pump Stations | BMP-03 | Rensselaer | Operational Start up and Construction Completion Date | 8/15/2015 | 8/10/2015 | 2.0000 | 0.0016 |
| Total by best management practices | | | | | | | 2.0000 | 0.0016 |
| Total Capture and Percent Reductions for all Categories | | | | | | | 4.2094 | 0.0097 |

| Capture and Percent Reduction on Cumulative Basis for all LTCP Appendix B Projects During 2015 by Community | | | | | | | | |
|---|---|--------------|------------------|--|---------------------------|------------------|-------------------------------|--|
| Project Type | Project Name | Project Code | Project Location | Milestone | Appendix B Deadline Dates | Action Performed | Annual Volume Captured (Mgal) | Community Level Annual Percent CSO Reduction (%) |
| Green Infrastructure | North Swan St. Green Infrastructure Project | GI-02 | Albany | Construction Completion Date & Operational Start Up Date | 12/15/2015 | 11/20/2015 | 0.0094 | 0.0001 |
| Total for the City of Albany | | | | | | | 0.0094 | 0.0001 |
| Best Management Practices | Upgrade Pump Stations | BMP-03 | Rensselaer | Operational Start up and Construction Completion Date | 8/15/2015 | 8/10/2015 | 2.0000 | 1.0000 |
| Separation | Partition St./Broadway Sewer and Drain Improvements | SSS-02 | Rensselaer | Operational Start up and Construction Completion Date | 12/31/2015 | 12/29/2015 | 2.0000 | 1.0000 |
| Total for the City of Rensselaer | | | | | | | 2.0000 | 2.0000 |
| Separation | George St. Sewer Separation | SSS-04 | Cohoes | Operational Start up and Construction Completion Date | 12/15/2017 | 6/11/2015 | 0.2000 | 0.0952 |
| Total for the City of Cohoes | | | | | | | 0.2000 | 0.0952 |

The annual volume captured is estimated based on the individual project parameters in conjunction with baseline wet-weather capture statistics documented in the Albany Pool CSO LTCP for a typical year. Annual percent CSO reductions were based on baseline annual overflows for the Albany Pool (1,236 MG); while the host community CSO volume reductions were based on the respective annual overflows volumes at the community level, as documented in the Albany Pool CSO LTCP.

Population Trends - 2015

| Community | July, 2014 | July, 2015 | Change in population | Percent Change in Population |
|--------------|------------|------------|----------------------|------------------------------|
| Albany | 98,566 | N/A | | |
| Cohoes | 16,212 | N/A | | |
| Rensselaer | 9,471 | N/A | | |
| Total | 124,249 | 0 | | |

Population estimates are produced by the U.S. Census Bureau and are released on an annual basis. Due to the nature of the survey that supplies this data, population estimates are not available until the following calendar year; therefore, 2015 population estimates for the CSO communities will not be available until summer of 2016.

Capture and Percent Reductions for all LTCP Appendix B Projects Completed Prior to and During 2014 By Type

| Project Type | Project Name | Project Code | Project Location | Milestone(s) | Appendix B Deadline Dates | Action Performed | Annual Volume Captured (Mgal) | Annual Percent CSO Reduction (%) |
|--|--|--------------|------------------|---|---------------------------|------------------|-------------------------------|----------------------------------|
| Separation | Upper Washington Ave. Groundwater Recharge | SSS-01 | Albany | Operational Start up and Construction Completion Date | 12/15/2015 | 5/30/2014 | 5.8000 | 0.1408 |
| Separation | Melrose/Winthrop Groundwater Recharge Basins | SSS-03 | Albany | Operational Start up and Construction Completion Date | 12/15/2016 | 6/5/2014 | 5.8000 | 0.1408 |
| Total by separation | | | | | | | 11.6000 | 0.2816 |
| Tributary Enhancements | Cross St. Trunk Sewer Rehabilitation Phase I | TE-02 | Troy | Operational Start up and Construction Completion Date | 12/15/2014 | 10/27/2014 | 0.0000 | 0.0000 |
| Tributary Enhancements | Cross St. Sewer Outfall Repairs and/or Replacement | TE-01 | Troy | Operational Start up and Construction Completion Date | 12/15/2014 | 1/21/2015 | 0.0000 | 0.0000 |
| Total by tributary enhancements | | | | | | | 0.0000 | 0.0000 |
| Green Infrastructure | Albany Ave. Green St. Project | GI-01 | Green Island | Construction Completion Date & Operational Start Up | 12/15/2014 | 6/25/2014 | 2.3000 | 0.0186 |
| Total by green infrastructure | | | | | | | 2.3000 | 0.0186 |
| Best Management Practices | McCormack Pump Station Upgrades | BMP-02 | Albany | Operational Start up and Construction Completion Date | 9/30/2014 | 9/30/2014 | 0.0000 | 0.0000 |
| Total by best management practices | | | | | | | 0.0000 | 0.0000 |
| Total Capture and Percent Reductions for all Categories | | | | | | | 13.9000 | 0.3002 |

The annual volume captured is estimated based on the individual project parameters in conjunction with baseline wet-weather capture statistics documented in the Albany Pool CSO LTCP for a typical year. Annual percent CSO reductions were based on baseline annual overflows for the Albany Pool (1,236 MG); while the host community CSO volume reductions were based on the respective annual overflows volumes at the community level, as documented in the Albany Pool CSO LTCP.

Capture and Percent Reduction on Cumulative Basis for all LTCP Appendix B Projects Completed Prior to and During 2014 by Community

| Project Type | Project Name | Project Code | Project Location | Milestone(s) | Appendix B Deadline Dates | Action Performed | Annual Volume Captured (Mgal) | Community Level Annual Percent CSO Reduction (%) |
|--|--|---------------------|-------------------------|--|----------------------------------|-------------------------|--------------------------------------|---|
| Separation | Upper Washington Ave. Groundwater Recharge | SSS-01 | Albany | Operational Start up and Construction Completion Date | 12/15/2015 | 5/30/2014 | 5.8000 | 0.2355 |
| Separation | Melrose/Winthrop Groundwater Recharge Basins | SSS-03 | Albany | Operational Start up and Construction Completion Date | 12/15/2016 | 6/5/2014 | 5.8000 | 0.2355 |
| Best Management Practices | McCormack Pump Station Upgrades | BMP-02 | Albany | Operational Start up and Construction Completion Date | 9/30/2014 | 9/30/2014 | 0.0000 | 0.0000 |
| Total for the City of Albany | | | | | | | 11.6000 | 0.4709 |
| Tributary Enhancements | Cross St. Trunk Sewer Rehabilitation Phase I | TE-02 | Troy | Operational Start up and Construction Completion Date | 12/15/2014 | 10/27/2014 | 0.0000 | 0.0000 |
| Tributary Enhancements | Cross St. Sewer Outfall Repairs and/or Replacement | TE-01 | Troy | Operational Start up and Construction Completion Date | 12/15/2014 | 1/21/2015 | 0.0000 | 0.0000 |
| Total for the City of Troy | | | | | | | 0.0000 | 0.0000 |
| Green Infrastructure | Albany Ave. Green St. Project | GI-01 | Green Island | Construction Completion Date & Operational Start Up Date | 12/15/2014 | 6/25/2014 | 2.3000 | 5.0000 |
| Total for the Village of Green Island | | | | | | | 2.3000 | 5.0000 |

Population Trends - 2014

| Community | July, 2013 | July, 2014 | Change in population | Percent Change in Population |
|--------------|------------|------------|----------------------|------------------------------|
| Albany | 98,628 | 98,566 | -62 | -0.06% |
| Troy | 49,911 | 49,910 | -1 | 0.00% |
| Green Island | 2,625 | 2,618 | -7 | -0.27% |
| Total | 151,164 | 151,094 | -70 | -0.05% |

Population Data Source: Annual Estimates of the Resident Population, US Census Bureau, Population