

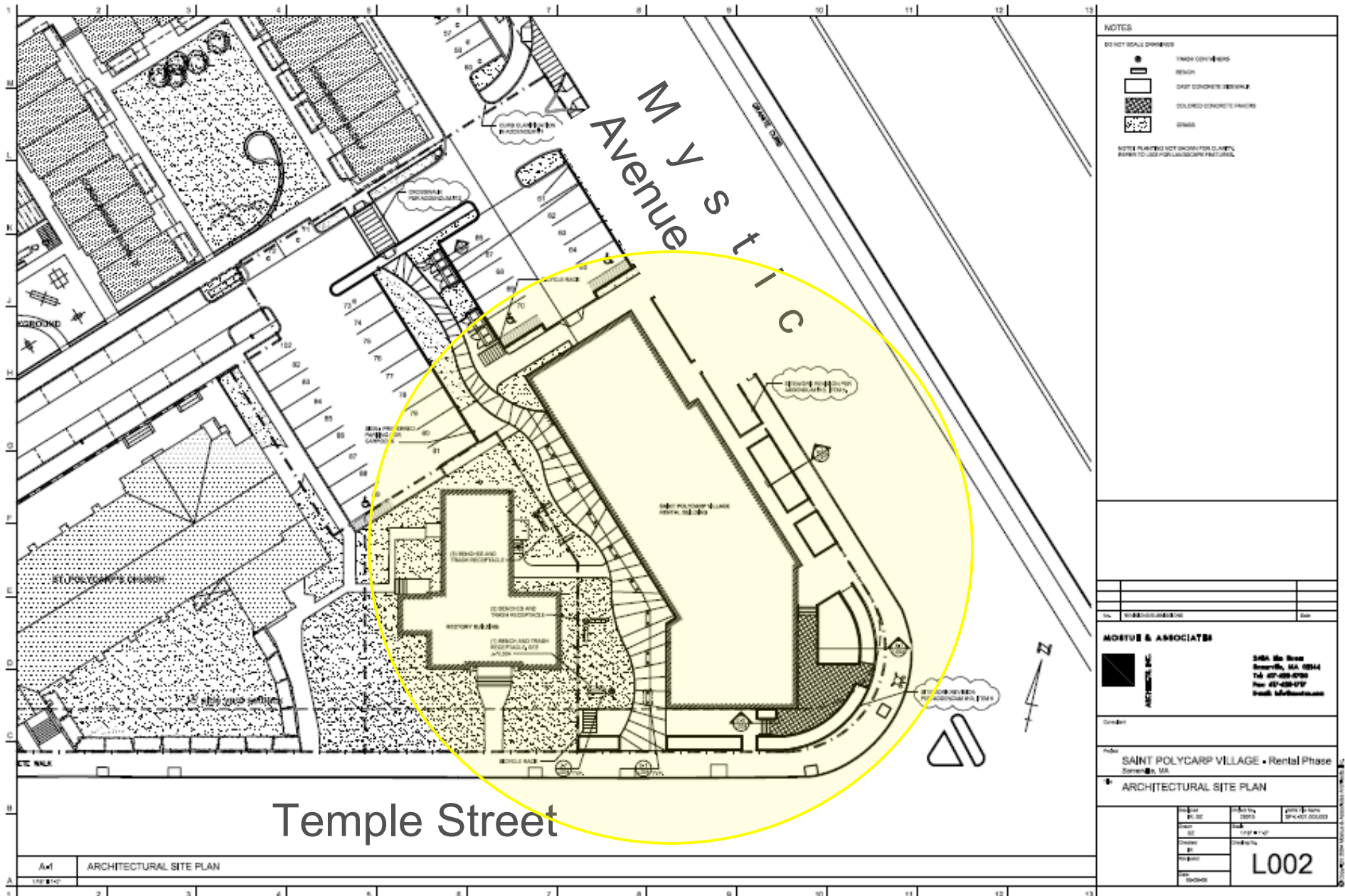
Saint Polycarp Village Apartments



A Case Study of Somerville's First Green Roof

Michael Moretti, Prospect Hill Academy Charles Sinkler, Apex Green Roofs
Kaitlin LeMoine, Prospect Hill Academy Dustin Brackney, Apex Green Roofs

Site Plan: St. Polycarp Village



NOTES

DO NOT SCALE DRAWING

- TRASH CONTAINERS
- BENCH
- CAST CONCRETE SEWER/VEHICLE
- COLOR COATED CONCRETE FINISHES
- GRASS

NOTES PLANTED NOT SHOWN FOR CLARITY. REFER TO JOB FOR LANDSCAPE FEATURES.

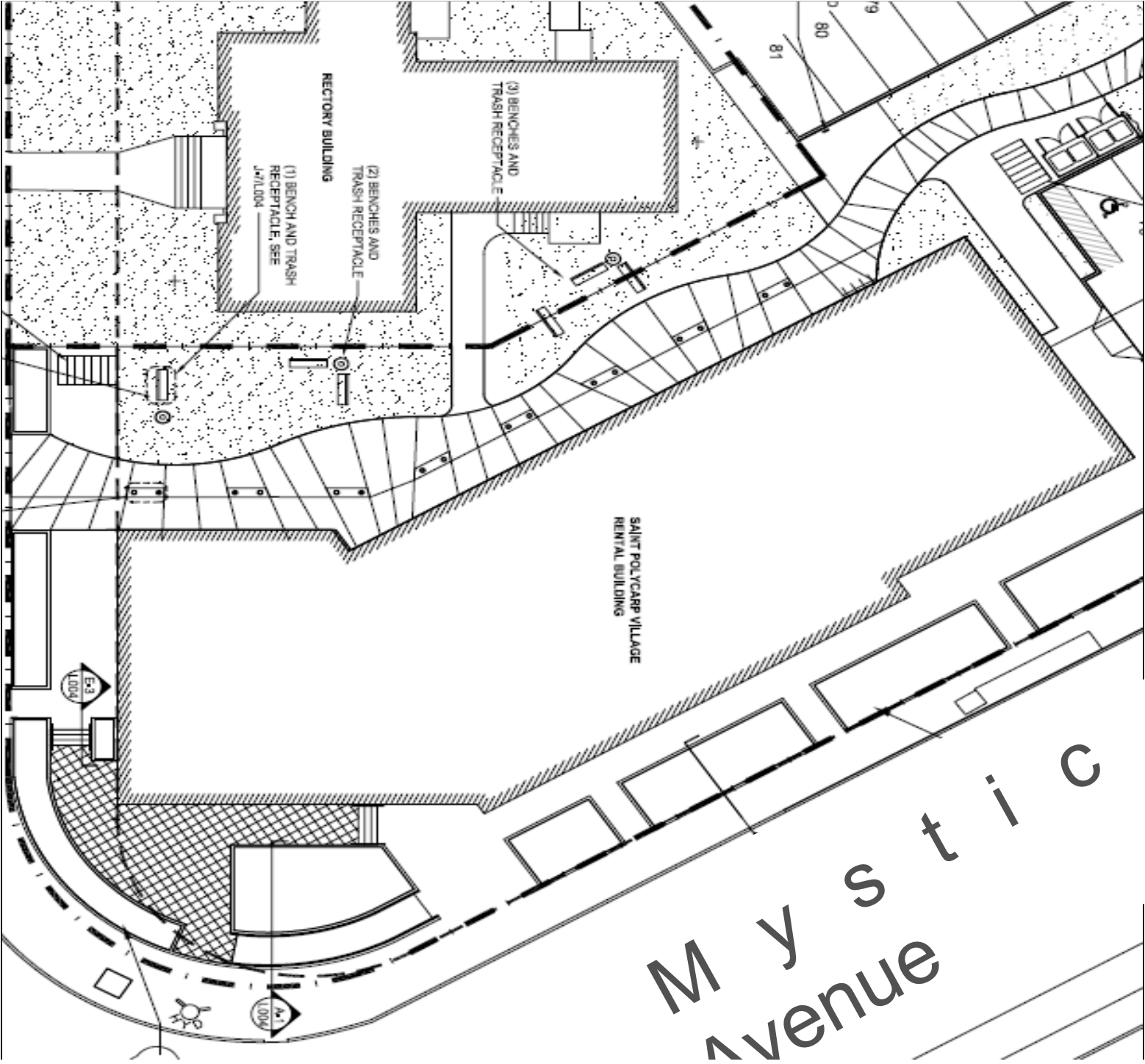
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SAINT POLYCARP VILLAGE - Rental Phase
Seymour, MA

ARCHITECTURAL SITE PLAN

Scale	1" = 10'-0"	Date	08/14/17
Drawn	ML	Checked	ML
Project	SAINT POLYCARP VILLAGE - Rental Phase		
Sheet	L002		



Mystic Avenue

SPV Green Roof Project Partners

Apex Green Roofs

170 School St.,
Somerville, MA

Green Roof Design/Build Company

- ▶ Install green roofs throughout New England and Mid Atlantic regions
 - ▶ 6 years of industry experience
 - ▶ Over 20 projects ranging from small residential projects to large commercial and institutional projects
- ▶ Collaborate with architects, landscape architects, engineers and contractors to design individualized systems
- ▶ Maintain our green roof installations with quality assurance and client satisfaction (included in installation costs)



Simmons College, School of Management,
Boston, MA



Private Residence, Shelter Island, NY



SPV Green Roof Project Partners

Prospect Hill Academy Charter School

Cambridge, MA

Mission:

- ▶ prepares students for success in college
- ▶ encourages a life-long love of learning
- ▶ fosters responsible citizenship.

Our Community:

- ▶ 275 students in grades 9-12
- ▶ 48.7% male/51.3% female
- ▶ Diversity: Black/A.A.: 50%; Latino: 26%; White: 17%; Other: 7%
- ▶ Socioeconomic Diversity: 52% free or reduced lunch



EPICS / HIGH



PHA EPICS Program

Engineering Projects In Community Service

- ▶ Green Roof Course
 - ▶ Engineering
 - ▶ Environmental Science
 - ▶ Green Building Techniques
- ▶ Team-based Design Projects
- ▶ Community Partnerships
 - ▶ Groundwork Somerville
 - ▶ Apex Green Roofs
 - ▶ Somerville Community Corp.
 - ▶ Mostue & Associates Architects
 - ▶ Curtis Construction



Foundational Partnership

Groundwork Somerville

- ▶ Local environmental non-profit dedicated to greening the city
- ▶ Need/ Project Goal
 - ▶ Design & install a pilot green roof on a local building in Somerville to further green the city and educate the public about green roof technology

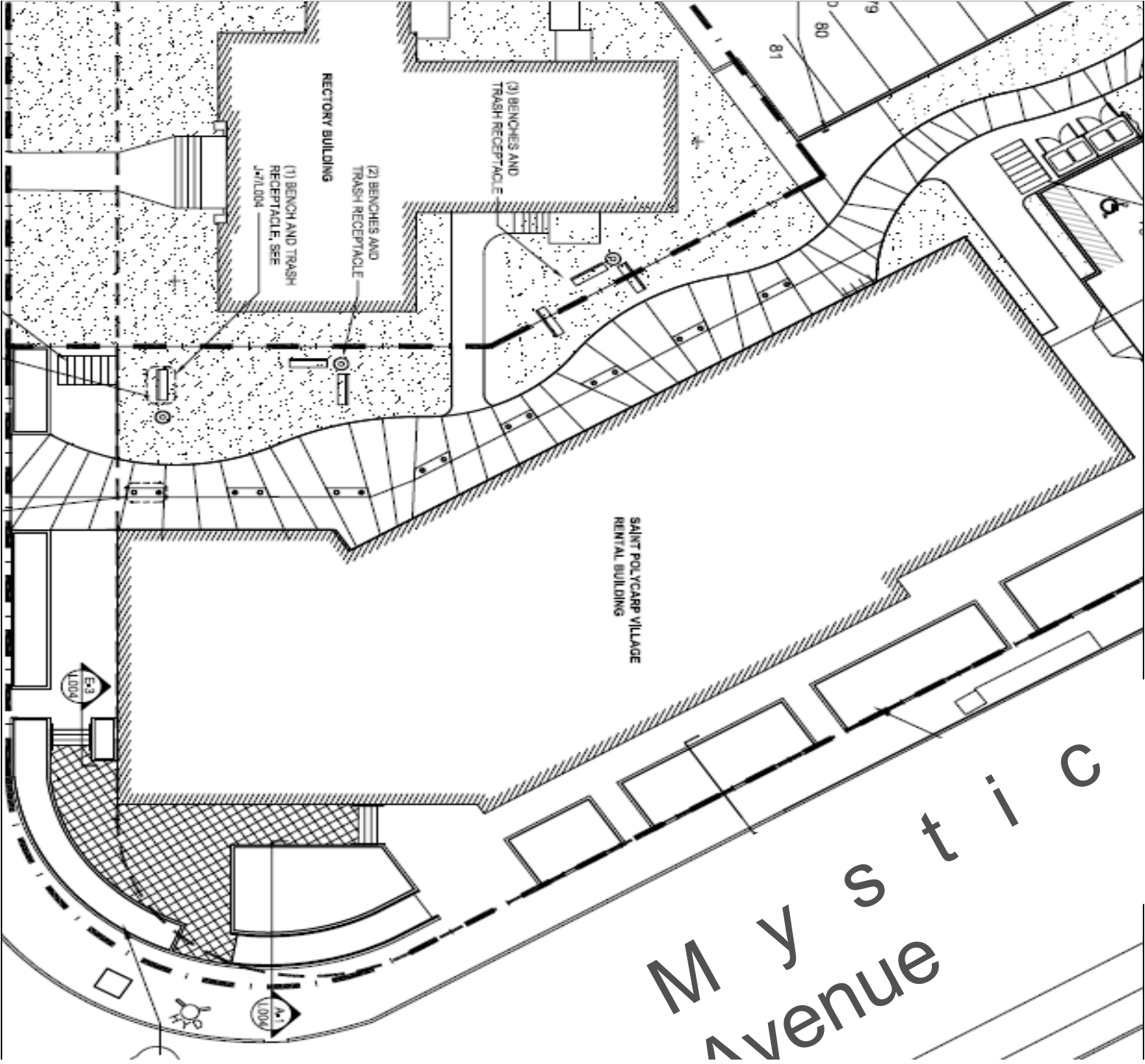
EPICS / HIGH



Saint Polycarp Village Apartments

- ▶ Project Manager: Courtney Koslow, Somerville Community Corporation
- ▶ Lead Architect: Iric Rex, Mostue & Associates Architects
- ▶ Project Goals:
 - ▶ Transform closed Catholic parish into a mixed-use, mixed income development for 24 families in Somerville
 - ▶ Achieve LEED-NC Silver rating
 - ▶ 50% energy savings
 - ▶ 40% water savings
 - ▶ Cooling & Filtration of interior air to remove pollutants





Mystic Avenue

Project Outcome

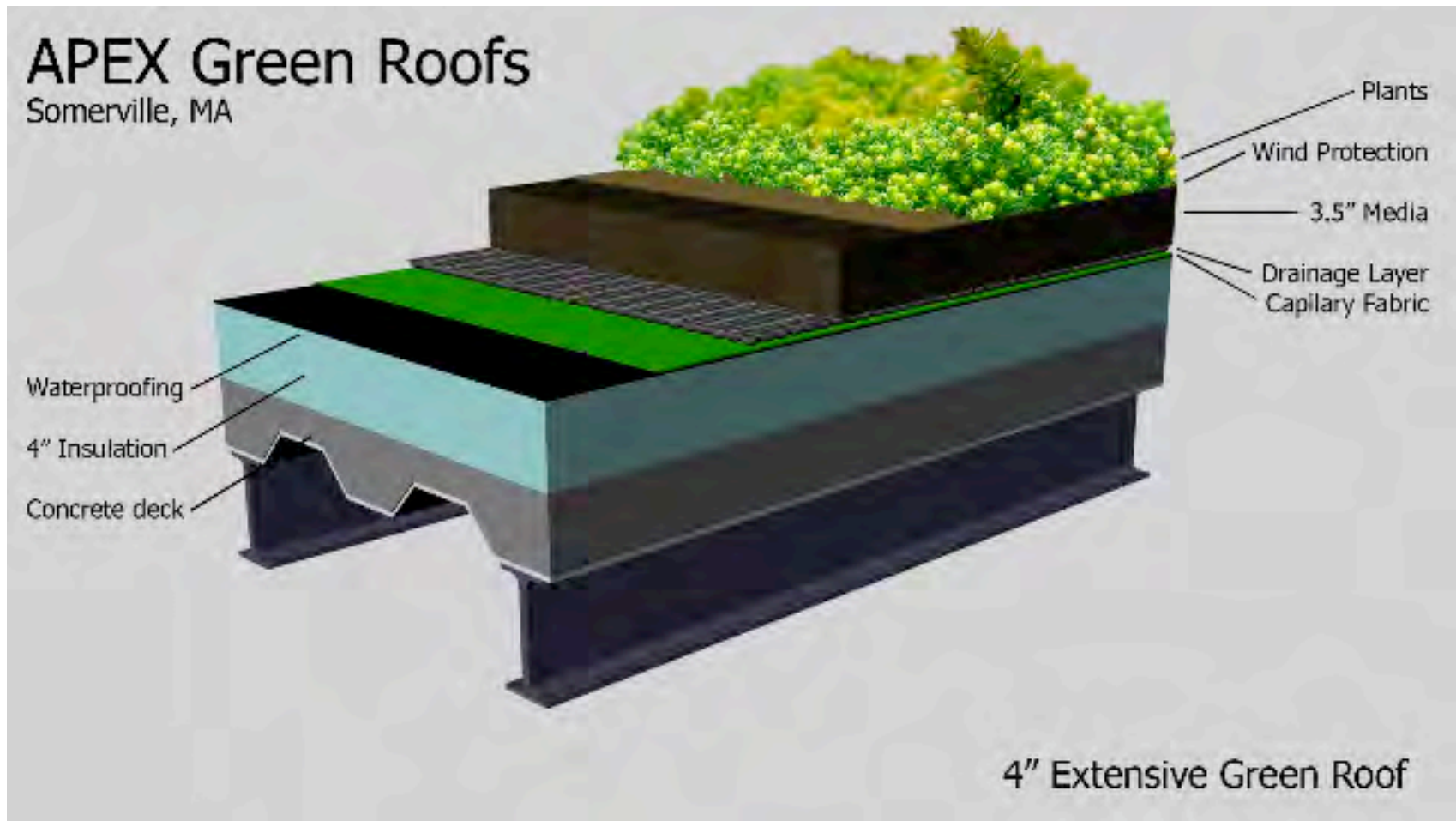


Green Roof Specifications

- *System Type:* 4-inch extensive
- *Plants:* 7 sedum species
- *Total Square Footage:* 2100 sf
- *Cost:* \$25, 250
- *Cost per sf:* \$12.02/ sf
- *Dates of Installation:* 5 days – Includes student safety and installation tutorial.
- Installation cost includes all materials, labor, crane rentals and maintenance for 2 years.



Components of an Extensive Green Roof System Similar to the Saint Polycarp System



▶ Natural History Museum of the Adirondacks, Tupper Lake, NY

