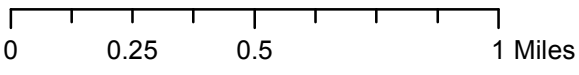
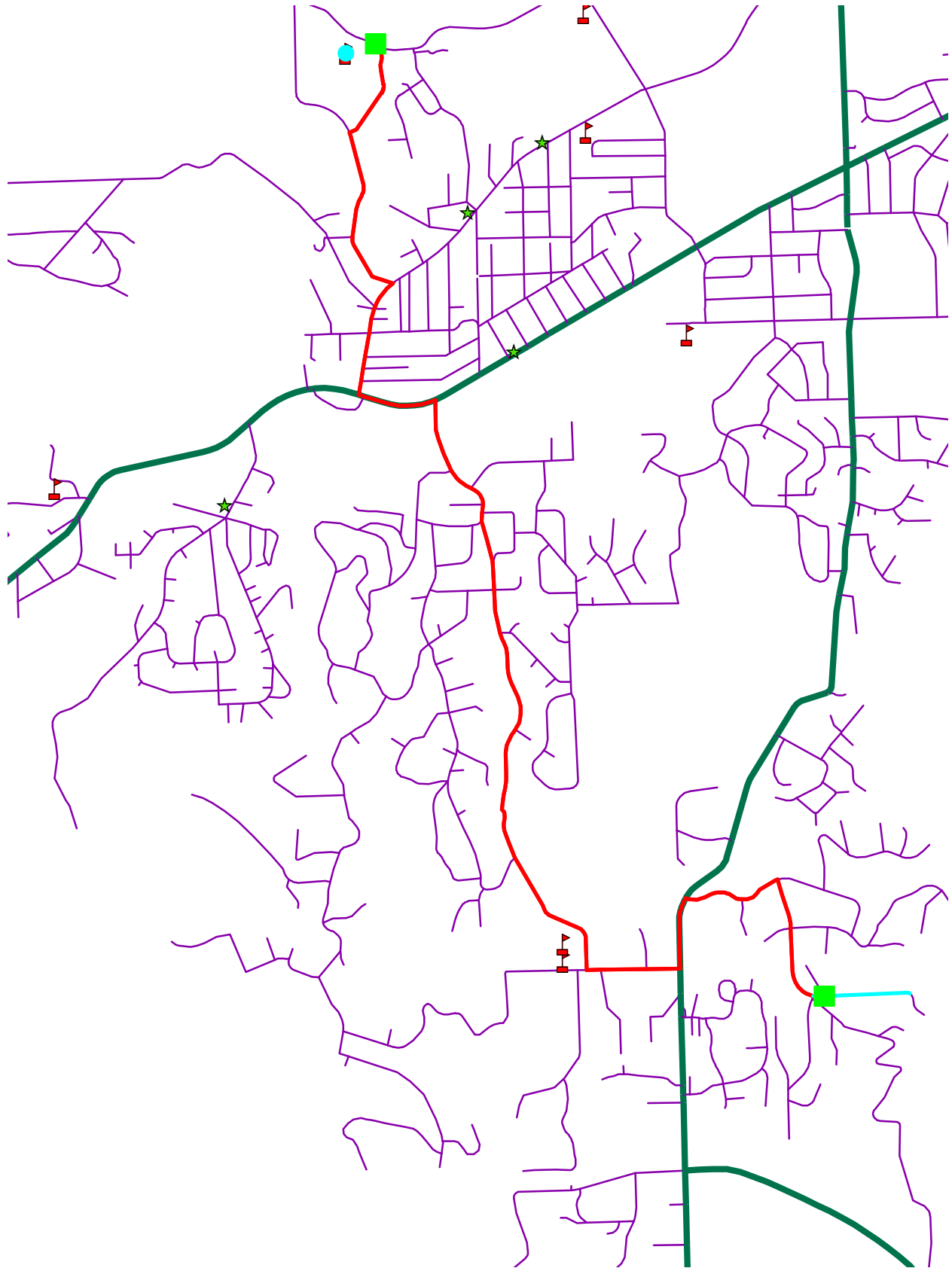


1. PDF Attached
2. The route in question 1 is 6638.5 meters long.
3. PDF Attached
4. PDF Attached
5. PDF Attached
6. PDF Attached
7. The southern main serves the greater length of pipes at 72,068.25 meters of pipe. The northern pipe serves 37,736 meters of pipe.
8. The Civic Center serves 17,233.95 meters of water mains, and East Rapid serves 10,056.4 meters of water mains.
9. The water main that ends at 5th Street and Cathedral Dr. passes through 23 T-valves.

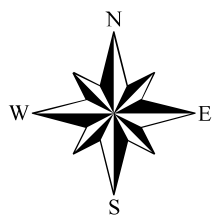
Challenge Problem

- PDF Attached

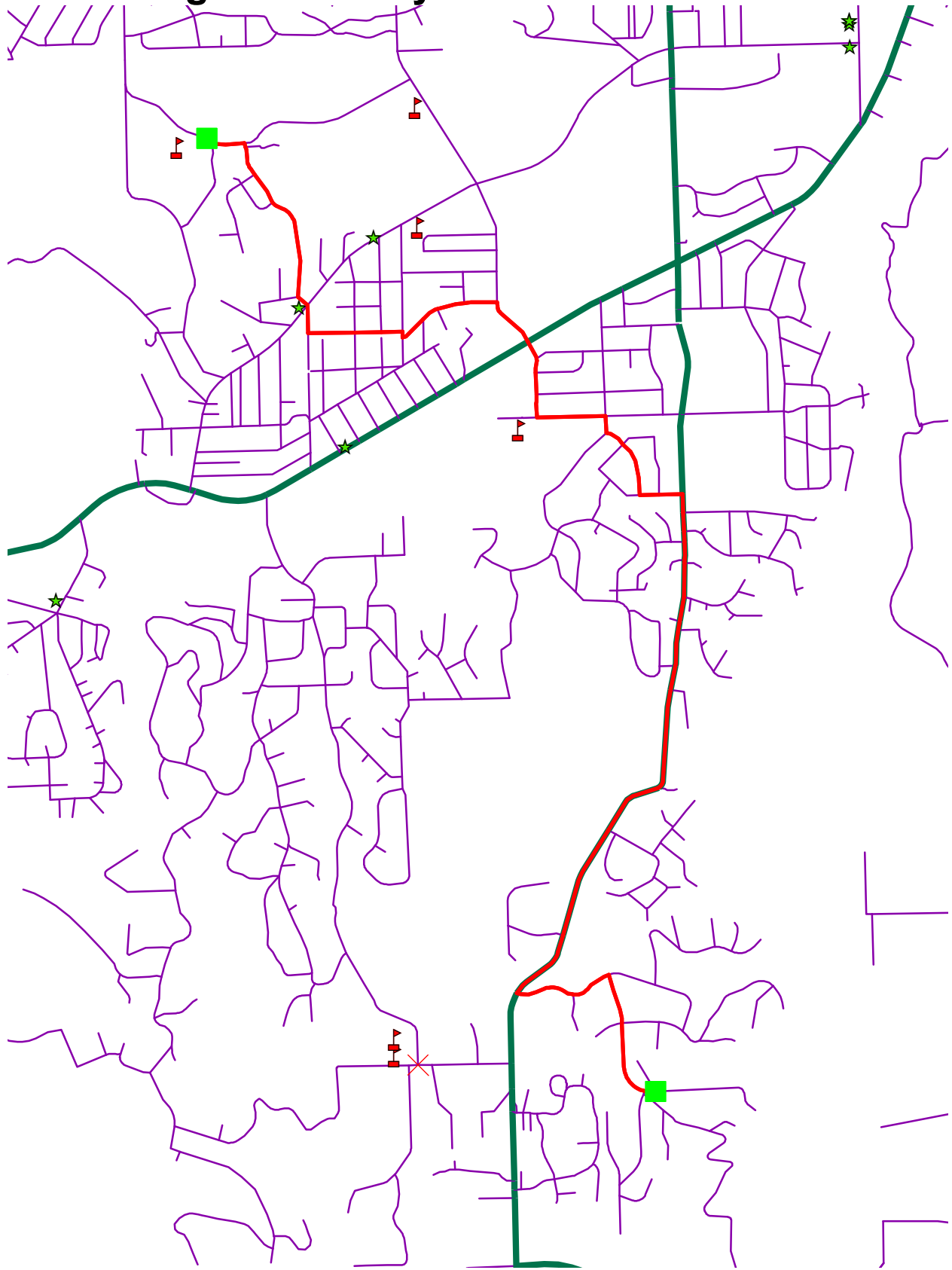
Shortest Path From Hidden Timbers to Stevens High School



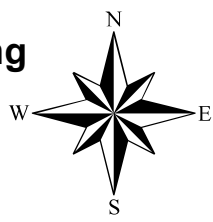
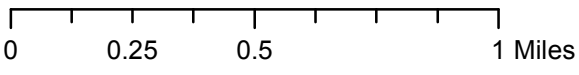
Shortest Path in Red



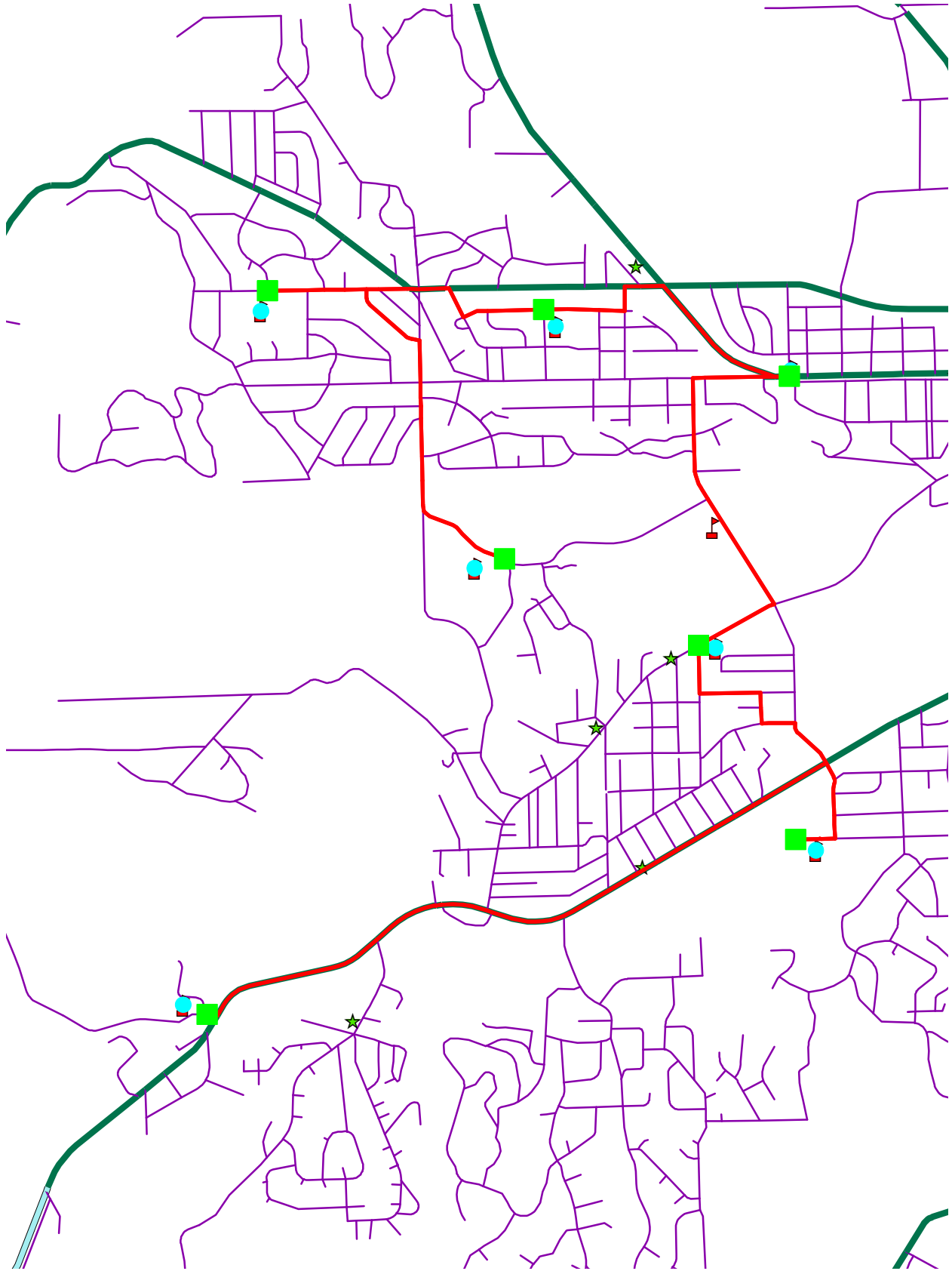
Shortest Path From Hidden Timbers to Stevens High School Avoiding Park Dr. By Southwest Middle School



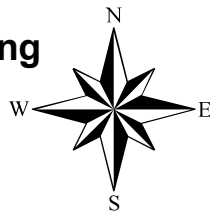
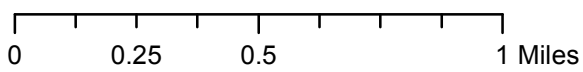
Path Distance is 6984 meters long



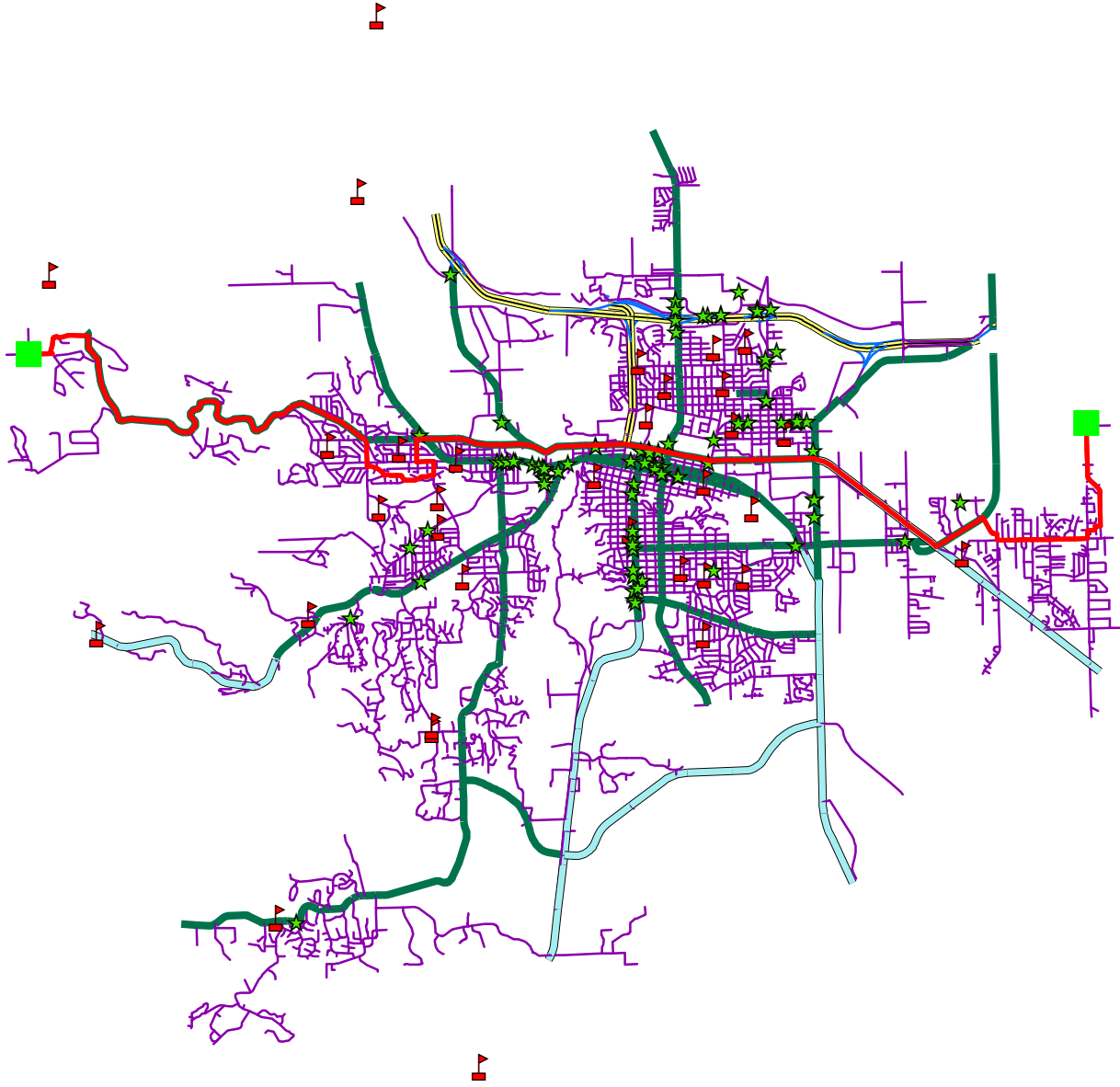
Stevens High School Daily Lunch Delivery



Path Distance is 11,528 meters long

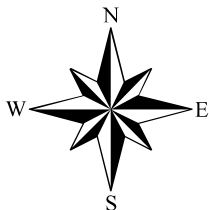


Hemp Delivery Path

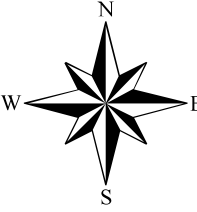
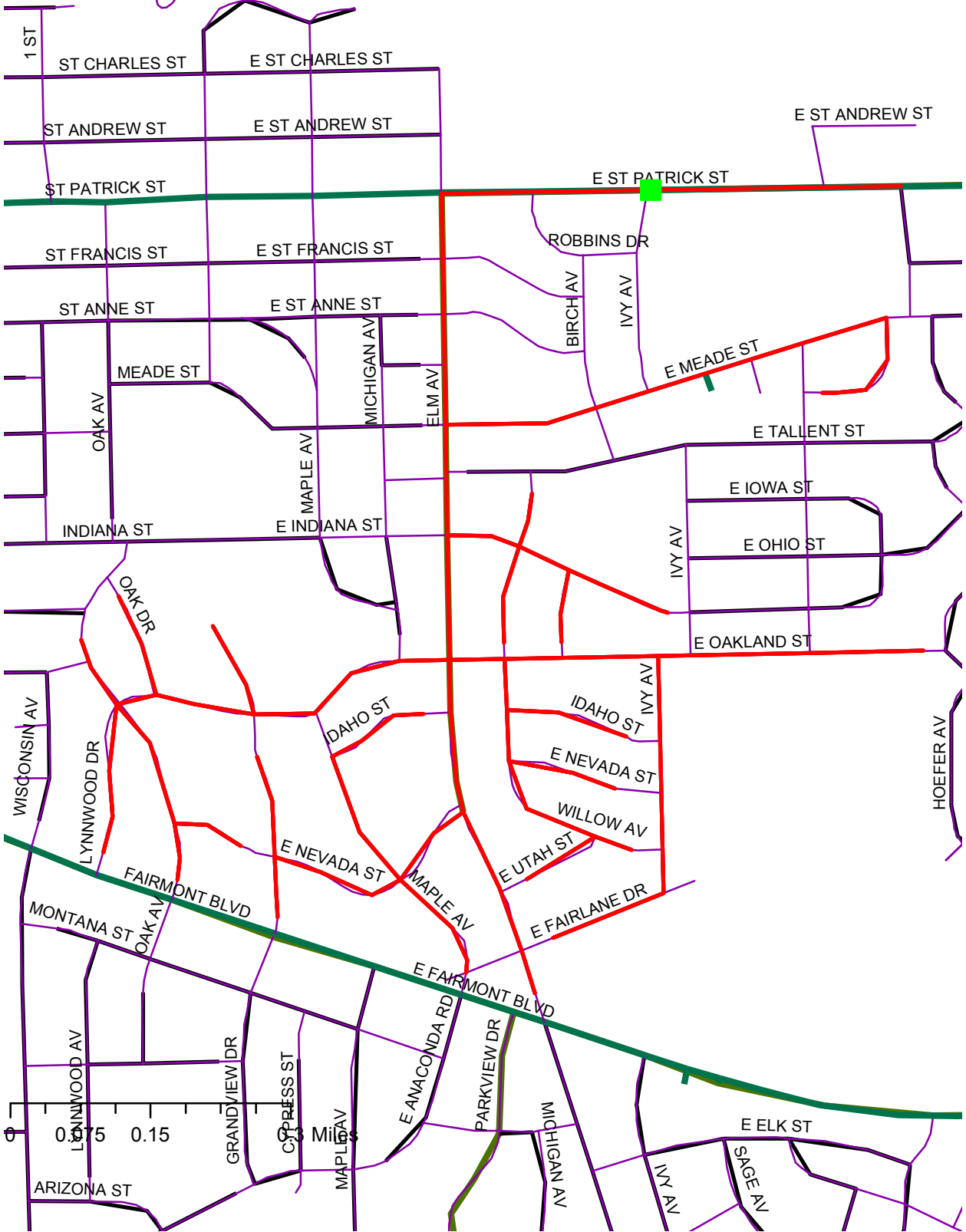


0 1 2 4 Miles

Path Distance is 26,979.6 meters long



Area Downstream of Water Line on E Patrick St. and Ivy Ave.



Local Route from Alta Vista Dr. to E. Knollwood St.

