



US Route 2 Renovation

Billy Embach
Construction Engineer
2025

Introduction

Originally from Florida

Studied at Umaine because of better opportunity

Construction Engineering Technology, 2025

National Guard

Summer Internship with Pikes Industry



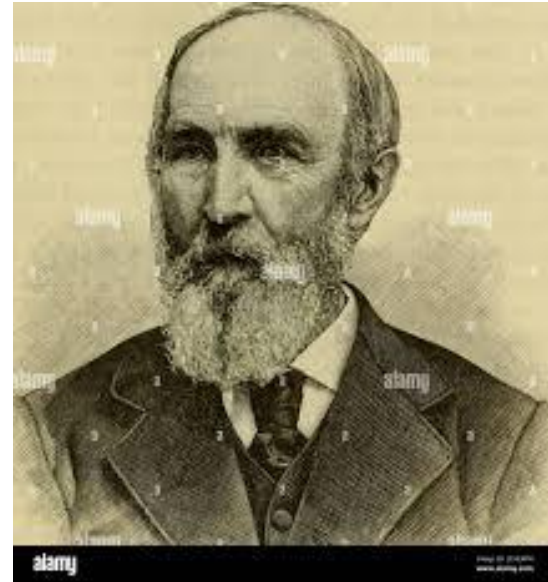
Pikes Industry Inc

Established in 1872, first Job is a stretch of road in front of city hall in Newark, New Jersey

5 generations of family leadership

In 1988, Pike Industries was acquired by CRH

become the largest aggregates, asphalt, and construction company in northern New England.



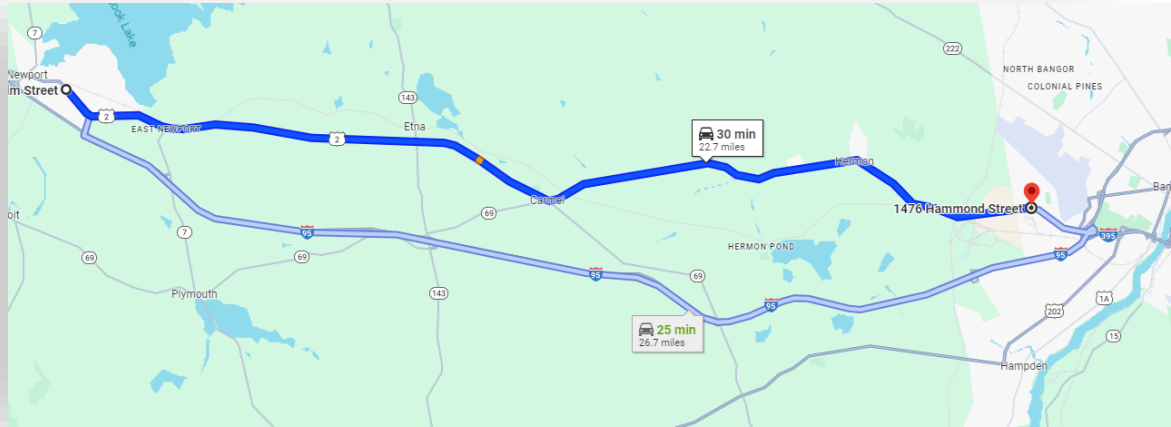
Introduction to Project

US Route 2 From Newport to Bangor. 23 Miles Long. 2 Lane rural State Highway

Services 2200 Vehicles a day

Resurfacing Project

Started from June 6th to October 24th (20 Weeks). Worked from June 24th to September 2nd



Paving Process



mixing



loading



transport



truck to paver



paving



compaction

Traffic Control

Priority: Safety!

Ensure traffic moves smoothly

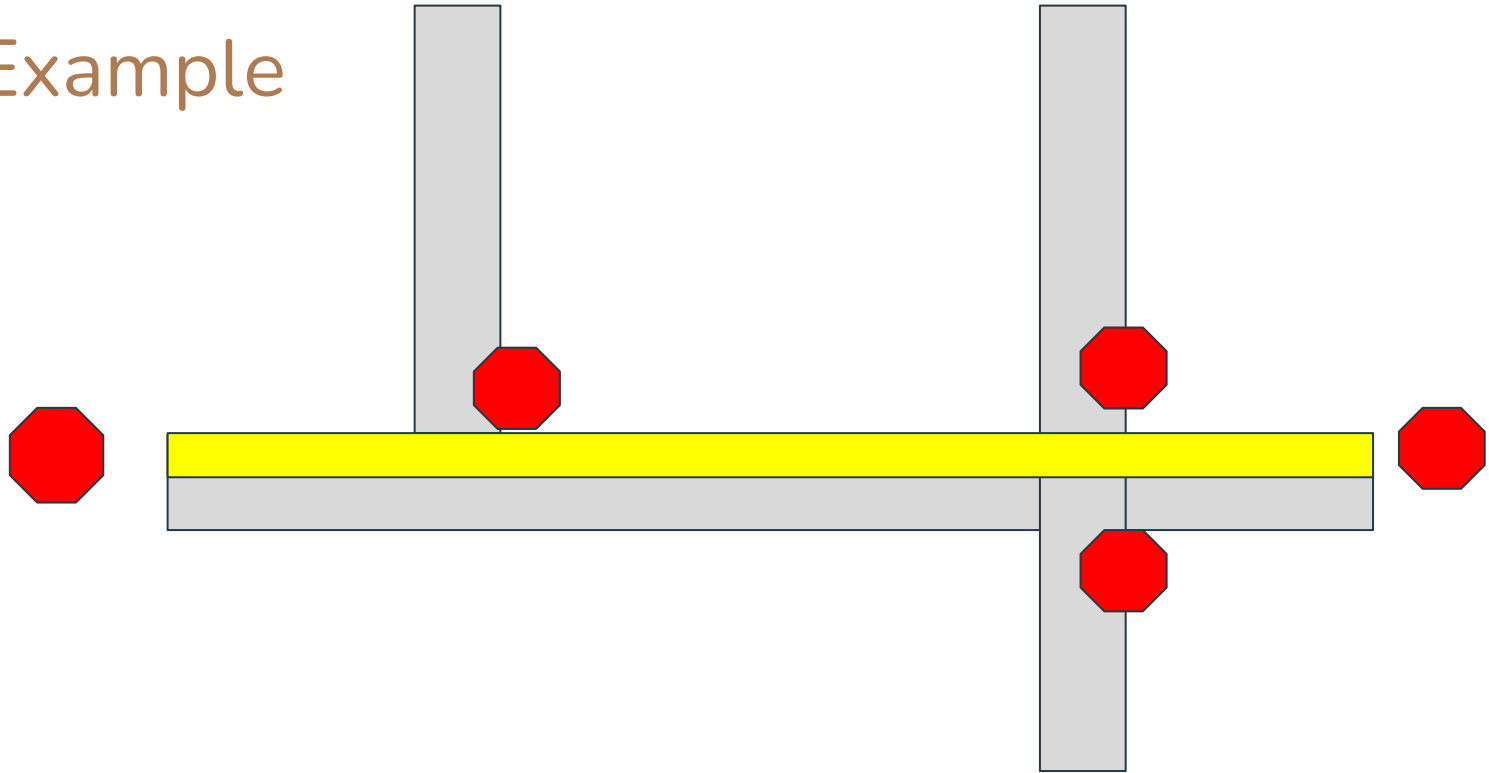
Flagger on Every Street

Use between 2500ft - 4000ft of road

(Don't make the area too long)



Example

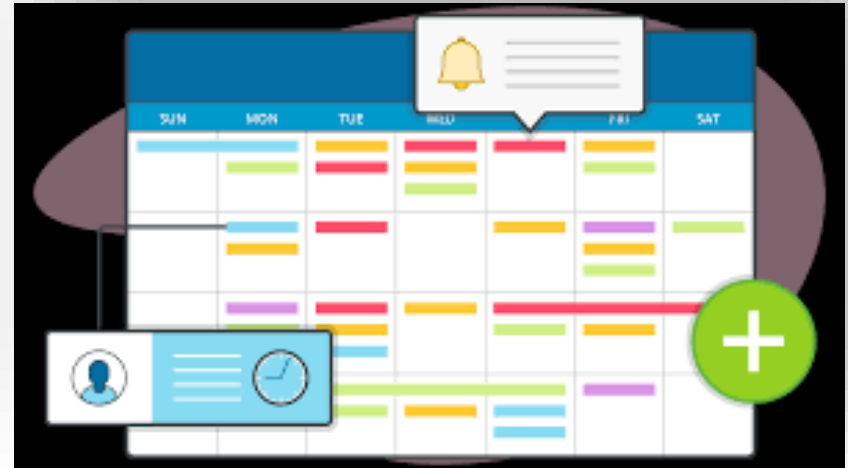


Basic Scheduling

There are limited resources used efficiently

Part of a project must be completed

Factors that change schedules: Weather, subcontractor doesn't show up, abused machinery



Problems and Solution

Wrong Measurements on shoulder of road. (Percent Slope Vs Degrees)

Leveler was not in the correct units

Leveler kept resetting to

More material was required

Fixed on the day the problem was discovered



Problems and Solutions Cont.

Short on Labors

Little lives in construction areas

Traffic Control Spread thin

Solution: Used SubContractors from other companies



Problem and Solutions Cont.

Schedule Change (No Paver or Paint truck)

Unable to continue project

Factors may not be controlled

Improvise on creative ways to continue job



Questions



NOTES

Conclusion slide. Talking about a summary of what was said

Have a slide with one singular problem

Intro Slide about yourself*****

About the company slide*****

Show that it was a two lane road*****