



# US Government Agency wanted to automate manual verification process for building plans

## 24%

Reduction in total building plan review effort

## 7 Hours to 70 minutes

Decrease in time spent by teams to verify building plans

## 22

Important criteria automated

## CLIENT

The client is the government of the USA that approves and verifies new building plans.

They employ over 8000 people across the USA.

## AT-A-GLANCE

### Challenges

The client was reviewing building plans manually and verified if it's as per defined norms.

They needed a solution that could help them reduce manual verification and automate the review process.

### Solution

- SquareShift built an application that scans building plans as input and used computer vision to extract specs.
- We also built rules engines to compare data and provided it in a dashboard to view the final report

## PROJECT CONTEXT

The client was reviewing building plans manually and verified if it's as per defined norms. They needed a solution that could help them reduce manual verification and automate the review process.

## PROJECT OBJECTIVES

- Reduce the building plan review efforts
- Automate the manual verification process and keep it as per norms

## SOLUTION DELIVERY

- SquareShift built an application that could scan and extract data using computer vision with just the image one could identify the exact locations in a building.
- Used Computer Vision & ML to extract plan specs and generate key insights.
- SquareShift built a rules engine to compare specs with master specifications and verify the specifications.
- Built and sent notifications so that reviewer can see the summary of all the elements in the building plan that meets specification.
- SquareShift also provided a dashboard with the final review report.

## TECHNOLOGY STACK

