



CASE STUDY NO. 4

CAR TO STRUCTURE

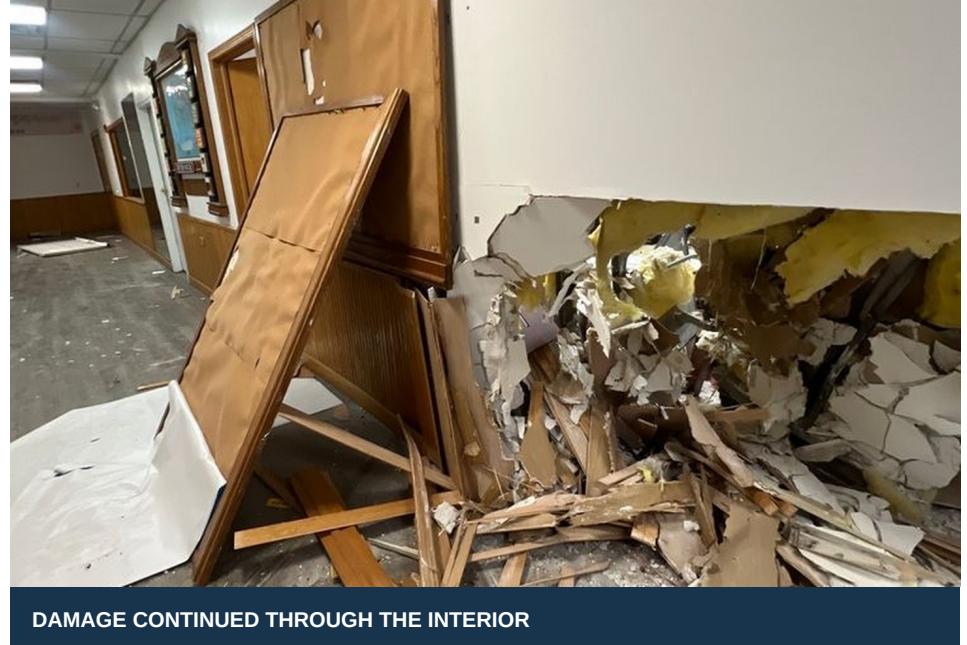
CAUSE OF LOSS: VEHICLE IMPACT

What to do when a vehicle tears through an occupied building and compromises an exterior wall.



Impact control, board-up, weather protection, shoring, coordination and reconstruction planning.

THE COLLISION DISPLACED AN ENTIRE WALL ASSEMBLY



FIRST: PROTECT PEOPLE AND CONTROL THE COLLAPSE ZONE

The impact tore the exterior entry assembly away from the building and drove framing, finishes and debris into occupied interior rooms. Before cleanup, the team restricted access, identified unstable components and documented conditions inside and outside the structure.

DO NOT DISTURB UNSUPPORTED DAMAGE

Vehicle impact can interrupt load paths that are not obvious from the surface. Removing debris before temporary support is considered can create a second failure.

BOARD UP THE OPENING AND PROTECT IT FROM WEATHER



CLOSE THE BUILDING ENVELOPE

Temporary board-up and emergency tarping were installed to separate the damaged rooms from the exterior and limit additional water intrusion.

CHECK INCOMING WEATHER

With storms moving through the area, the response had to use the available weather window. The immediate goal was not a finished repair; it was a secure, weather-resistant temporary condition.

SUPPORT THE BUILDING BEFORE REMOVING THE HAZARD



CONTROLLED ACCESS AND DEMOLITION



SUPPORT AND FRAMING CONDITIONS EXPOSED

SHORING CREATES A SAFER PATH FOR THE WORK THAT FOLLOWS

Temporary shoring was installed as needed to support compromised areas while damaged materials were removed and the structural conditions were opened for evaluation. This protects the building, the workers and the occupied areas that remain outside the controlled work zone.

STABILIZE FIRST. DEFINE THE PERMANENT REPAIR SECOND.

Temporary support controls immediate risk. Engineering and architectural review then determine what must be rebuilt and how the repaired assembly will connect to the existing structure.

CLEAR THE WORK ZONE WITHOUT LOSING TRACK OF CONTENTS



CONTENTS WITHIN THE DAMAGED AREA



PACKED, LABELED AND MOVED TO SAFETY

THE BUILDING COULD NOT BE STABILIZED AROUND A FULL ROOM OF CONTENTS

Furniture, ministry materials and other contents were documented, packed and relocated from the affected rooms. Clearing the area created safe access for mitigation and structural work while keeping church property organized for return later in the project.

WHY THE CONTENTS WORK MATTERS

Moving items without a record creates avoidable loss. A labeled pack-out protects the contents and gives the construction team the clear workspace required for an efficient rebuild.

ONE TEMPORARY PLAN. ONE PERMANENT REPAIR PATH.



TEMPORARY WEATHER PROTECTION



OPENED FOR REVIEW AND RECONSTRUCTION

ENGINEER AND ARCHITECT

Evaluate the compromised structure, define temporary support and develop the permanent repair details.

CHURCH LEADERSHIP

Coordinate access, protect ongoing ministry needs and separate the active building from the construction zone.

LOCAL OFFICIALS

Review temporary conditions and the path to compliant permanent repairs before the next phase proceeds.

The response moved forward through coordinated site meetings, documented decisions and a shared understanding of what portions of the building could remain in service.

FROM DAMAGED ROOMS TO A CLEAN, PROTECTED SHELL



INTERIOR IMPACT AND DEBRIS



FRAMING OPENED AND REPAIR AREAS DEFINED

CONTROLLED DEMOLITION REVEALED THE TRUE REPAIR SCOPE

Once the temporary protection, contents work and stabilization were complete, crews could remove unsalvageable finishes and damaged framing in a controlled sequence. The structure was left open, clean and accessible so permanent framing and building systems could be restored correctly.

KEEP THE REST OF THE BUILDING USABLE

The work zone remained separated from the portions of the church approved for continued use, allowing operations to continue while reconstruction advanced.

IMPACT CONTROLLED. BUILDING PROTECTED. REBUILD UNDERWAY.



INITIAL VEHICLE IMPACT



STABILIZED AND MOVING INTO RECONSTRUCTION

THE IMMEDIATE LOSS WAS CONTAINED WITHOUT LOSING SIGHT OF OPERATIONS.

The impact area was secured, weather exposure was controlled, compromised areas were supported, contents were cleared and the structure was opened for a coordinated repair. With temporary plans in place, the church could continue serving its congregation outside the restricted work zone while permanent reconstruction moved forward.

THE PROPERTY-OWNER LESSON

After a vehicle impact, secure the area, protect the opening and involve structural professionals before cleanup changes the conditions.