

Date: 10/18/2023

To: **Scott Jones**
Carolina Restoration Services
8160 Chapel Hill Rd
Cary, NC 27513
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919-747-1620

Re: **Car Impact Damage**
Location: 6445 US 401 N (Fuquay-Varina, NC)
JDS Project No.: RDU2309580
Date of Inspection: 10/11/23

A representative of JDS Consulting arrived on site to observe the issues reported to us by the client, which are presented, along with our recommendations, in this report.

Observations

The client requested a visual structural evaluation at the location referenced above after a vehicle struck the front left corner of the home. The impact occurred at the stoop. The impact damaged the foundation and part of the floor framing. The majority of the foundation and framing damage was at the corner. A foundation crack was observed approximately 16' to the right of the front rear corner. The foundation and framing damage was measured approximately 9' along the left side from the front corner. The masonry foundation was displaced, and some floor joists were damaged and broken including the band joists at the perimeter. The hardwood flooring were displaced at the front left corner where the impact occurred.

Recommendations

Were the foundation walls, brick veneer, and masonry stoop have been displaced, we recommend removing the displaced masonry and replacing with CMU and brick to match the existing construction. The foundation crack located at the front wall approximately 16' from the corner was not displaced and may be repaired by injecting a structural epoxy into the cracks. The crack should be opened up to approximately 3/6" using a grinder so the crack will accept epoxy, rather than just smearing epoxy on the surface. All damaged joists and framing should be replaced with like-sized members and installed per the 2018 NCRC. Although it was difficult to see, the subfloor is likely damaged at the perimeter and should be replaced as needed. All framing should be temporarily shored as needed while the repairs are completed.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 919-280-2023.

Respectfully Submitted,
David Lynn

