



May 26, 2023

TBC Pro Investments Natalia Diaz 5602 Pine Street Houston, Texas 77081

RE: Foundation Inspection

Job #21185

Dear Natalia Diaz:

Enclosed is the report of the foundation inspection performed at 5602 Pine Street in Houston, Texas. This inspection was conducted for you on May 25, 2023, at the agreed upon fee.

We appreciate the opportunity to assist you in performing the inspection. If we can be of any further service, please let us know.

Respectfully Submitted,

Jeff Burkman, P.E.

Registered Professional Engineer - 63505 Champions Engineering & Inspections

Registered Engineering Firm - 5832

INTRODUCTION

The purpose of this report is to document the results of a visual inspection that was conducted on the residential building described below and to document our agreement regarding the services provided to you. The information contained in this report takes precedence over any information or understandings that may have occurred during verbal communications.

This inspection was conducted for you, as our Client, to provide you with opinions regarding the performance of the primary load-bearing structural components of the foundation and to assess if these components are performing the function for which they were intended or are in need of immediate repair. No assessments were made for driveways, patios, sidewalks, fences, gutters, insulation, carpeting, toxic materials, paint, out buildings, cosmetic damage, etc. An investigation was not conducted to determine the existence of geological faults relative to the structure inspected.

This inspection was limited, in accordance with our agreements, to a visual examination of those portions of the structure that were accessible. Thus, hidden items such as damaged wood inside of walls, leak paths through ceilings and walls, interior slab cracks, etc., that are not amenable to visual inspection cannot be reported. Champions Engineering assumes no responsibility should such defects be discovered in the future.

Compliance with any government or industry code or standard or with any legal requirements is not within the scope of this inspection. By law, inspections to determine the presence of and the extent of damage created by wood infesting organisms, which includes all rotted wood, can only be performed by individuals who are so licensed by the state for that purpose and will not, therefore, be considered to be part of this inspection.

In the conduct of this work, Champions Engineering has acted as an engineering consultant to provide visual observations and opinions with regard to the visible condition of the load-bearing structure of this building. Recognizing that latent defects could exist which inherently may not be detected during an inspection of this type, Champions Engineering, does not represent that the observations described herein, and their analysis thereof, represent every structural condition that may exist. Any recommendations for repair that may be contained in this report should be completed, since such repairs may result in the discovery of additional defects that may not have been discovered during the original inspection.

To protect the foundation, it is advised to maintain a consistent moisture level at all points around the perimeter of the foundation, especially during dry weather periods.

Champions Engineering does not assume responsibility whatsoever for any action that may or may not be done as the result of the information provided during this inspection. The involvement of Champions Engineering in any activities associated with this inspection will terminate at the time this report has been submitted. Finally, this report was written to satisfy the specific objectives of you, as the Client. Neither the author of this report nor Champions Engineering, authorizes or assumes any responsibility whatsoever for the use of this report by any third person, except the Veterans Administration (V.A.) and/or the Federal Housing Administration (F.H.A.) and/or relocation company and/or mortgage company.

DESCRIPTION:

The residence inspected was located at 5602 Pine Street in Houston, Texas.

This was a foundation inspection, based on physical observation. The following are the results obtained from the visual structural evaluation. This residence is a 1962-year built, one-story with an addition on the rear left, single family wood frame dwelling with a painted brick veneer. The structure has what appears to be a poured concrete rebar reinforced slab foundation.

FOUNDATION INSPECTION:

The foundation inspection includes a physical non-destructive observation of the existing foundation condition and functionality.

The intention of this report is to inform you of the foundation's current status, i.e., whether it is performing as intended or in need of repair. The scope of this evaluation is limited to structural components that are readily observable and does not include damage in inaccessible areas, such as between walls. It also does not predict potential performance after the inspection or damage detected after inaccessible areas are uncovered.

Houston, as well as many parts of Texas soils are an active clay type (expansive and compressible) structures have experienced significant differential movement or settlement with slabs on grade. More often than not, this movement has resulted in little if any serious structural damage. However, some unsightly sheetrock and veneer cracks do appear along with annoying sticky doors and cabinets. It should be noted that more than 70% of the houses in Houston have some differential movement including minor cracks in the slab.

The brick veneer has been painted; this can cover cracks in the brick veneer. The house has been renovated.

Minor movement was observed on the *left side* of the house as evidenced by elevation differentials, and sheetrock cracks on this side of the house.

The foundation appears to be currently performing as intended. The elevations appear to be mostly of original construction, per the bubble levels and no observable signs of significant distress on the interior. The observable roof framing rafters were construction tight at the ridge beam. Spreadsheet calculations were performed utilizing the FPA (Foundation Performance Association's SC-13-1 Calculation Spreadsheet) resulting in a deflection ratio of L/400 which is within tolerance and tilt ratio of 0.22% which is within the 1% tolerance. This spreadsheet and report were reviewed and this engineer has taken into consideration the recommendations and guidelines of the ASCE (American Society of Civil Engineers), ACI (American Concrete Institute), and TRCC (Texas Residential Construction Commission).

The slab elevations were measured using an electronic manometer level measuring the surface of the floor coverings. Minor deviations were observed, but they were not consistent to indicate a significant problem. The locations of the measurements are noted on floor plan attached.

FYI: The elevation differential 2.3" is not a functionality issue, but an aesthetic issue. During this era, residential construction standards for slab flatness were not established.

The use of a single survey elevations does not allow a positively accurate diagnosis of excessive foundation movement unless the as-constructed out-of-levelness is accounted for rationally.

All doorjambs and counters were measured with a bubble level. All doors were opened/closed and most doors operated relatively easily.

The exterior foundation wall of the main structure appeared to be in good condition with no significant honeycombs, exposed steel or major movement observed.

Note: To protect the integrity of the structure it is essential to maintain a consistent moisture level (not too wet or too dry) at all points around the perimeter of the foundation. Maintain proper drainage and grading around perimeter of the structure (no water accumulation areas), and during dry weather periods consistent watering of perimeter soils is essential. Foundation movement/damage can occur when soils are too wet or too dry in areas on perimeter.

CERTIFICATION:

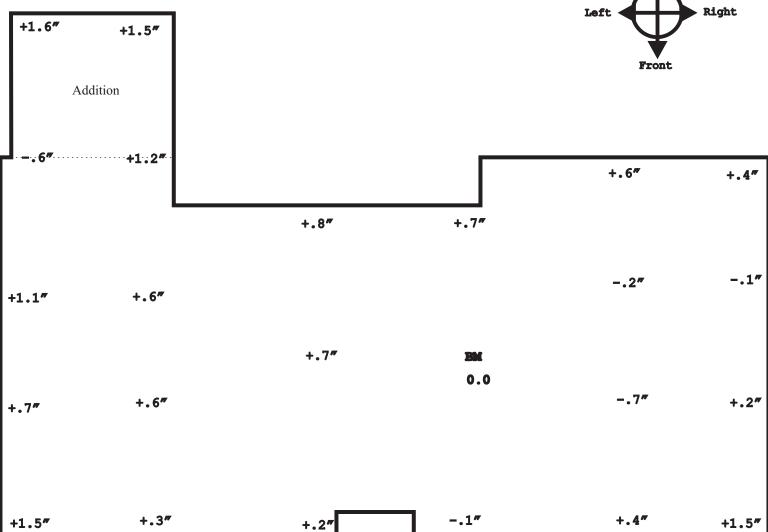
I hereby certify that I performed the inspection of the residence located at 5602 Pine Street in Houston, Texas and that I have reported my opinions and findings based upon my observations. I further certify that the information contained in this report is based upon visible evidence and is a level "B" engineering inspection, as per the Texas State Board of Engineers, and that no attempt was made to investigate those latent defects not readily detectable from visual observations. No responsibility is assumed for events that occur subsequent to this inspection and no warranty, either expressed or implied, is hereby made. The inspector and inspection company's liability is limited. A second opinion is always a prudent and a recommended course of action. May 25, 2023.

Champions Engineering Firm #5832

Jeffrey C. Burkman Registered Professional Engineer – 63505 Champions Engineering & Inspections Registered Engineering Firm – F-5832

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Front of House

BM-Benchmark

THIS SKETCH IS TO BE USED ONLY AS A REFERENCE OF THE FLOOR PLAN REPRESENTING AREAS THAT WERE MEASURED. APPROXIMATE SCALE 1" = 10'

