

5-28-74

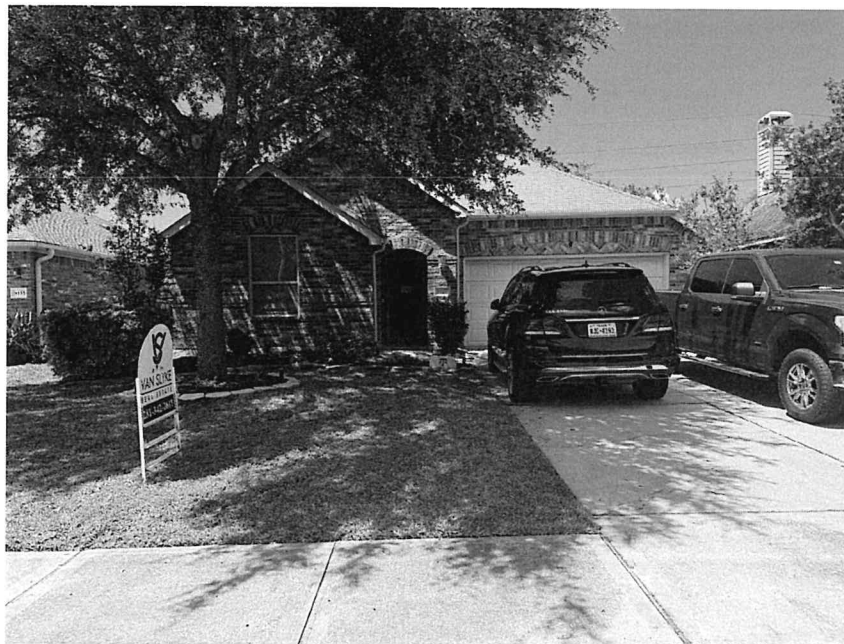


HEDDERMAN SERVICES

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FOUNDATION INSPECTION

8139 Silent Deep Dr
Rosenberg, TX 77469

Heri Serna
05/28/2026



Inspector
Deja Roberts
Engineer
281-355-9911
office@hedderman.com

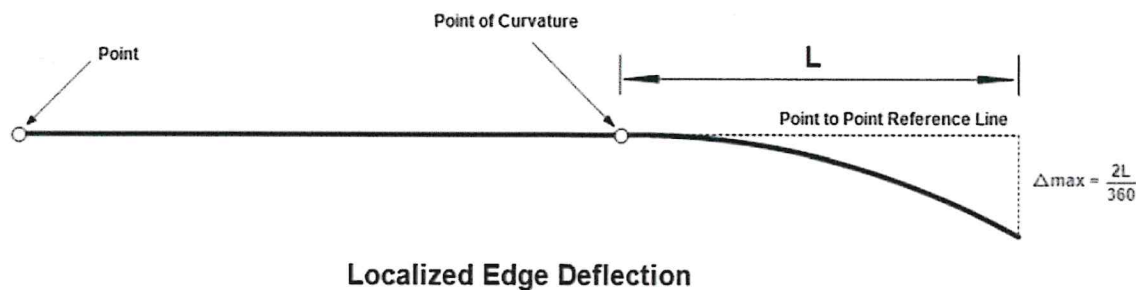
5: FOUNDATION ANALYSIS

Information

Foundation Deflection Analysis - Single: Edge Deflection Analysis - Excessive Deflection - Repair

In accordance with the "Guidelines for the Evaluation and Repair of Residential Foundations" Version 3 by the Texas Section of the American Society of Civil Engineers (ASCE), we looked at our graphs of the actual shape of the foundation and determined that the deflection curve of the foundation most closely resembles the localized edge-condition deflection described in the ASCE Guidelines rather than overall deflection or tilt deflection. Therefore, our analysis of this foundation will use the recommended Guidelines for localized edge-condition deflection.

According to the ASCE Guidelines, the evaluation of localized localized edge-condition deflections shall be evaluated as a cantilevered member (allowable deflection = one inch deflection in a 15-foot horizontal distance ($2L/\Delta = 360$ per the building code)).

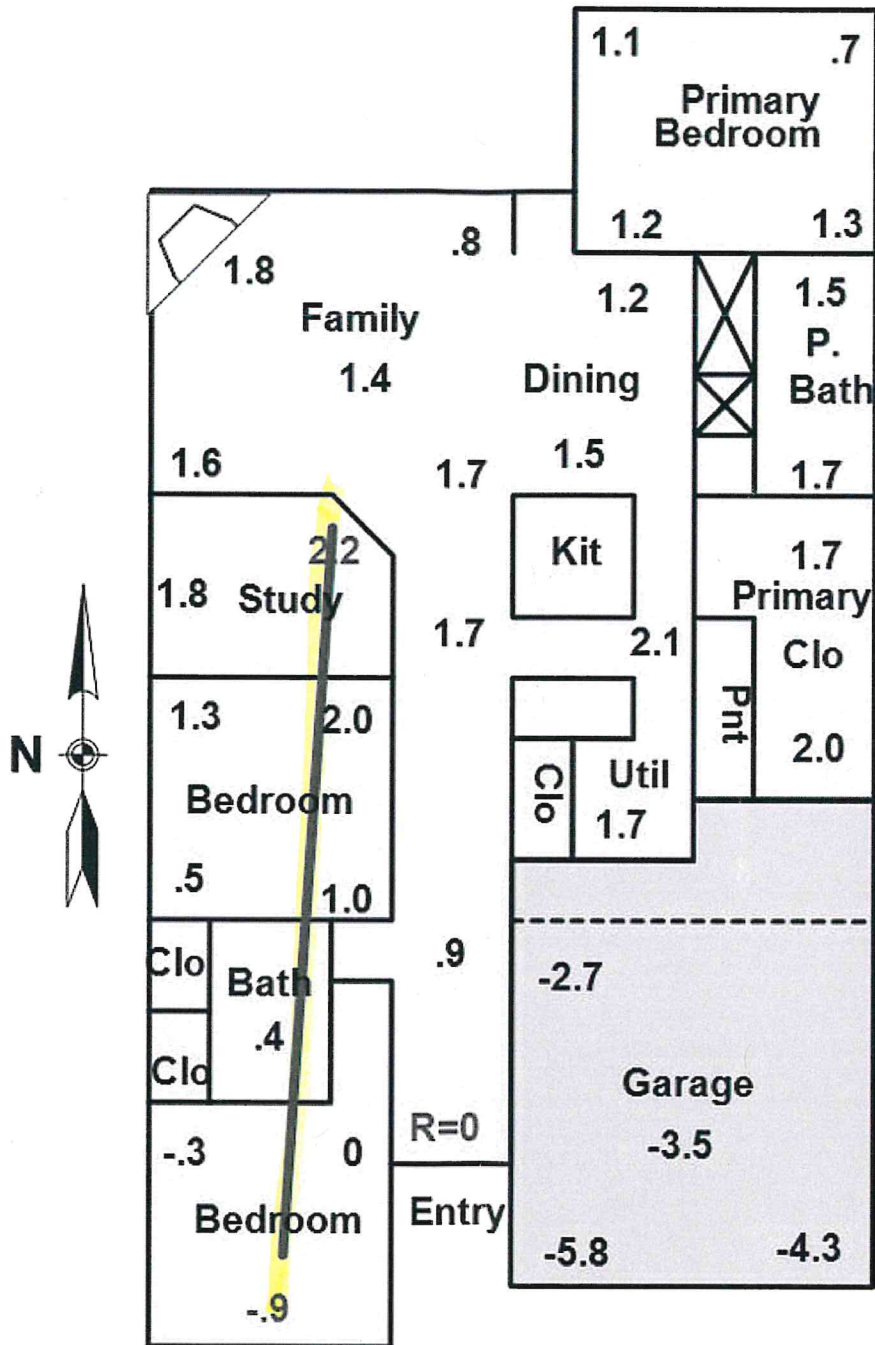


From the point of curvature located at the west bedroom to the south bedroom ($L = 30$ feet), the maximum allowable deflection is 2.00 inches. We calculated a deflection of 2.23 inches at the time of inspection across this span, which is **greater than the maximum allowable deflection**. This observation can be observed along the Red Line in the sketch below.

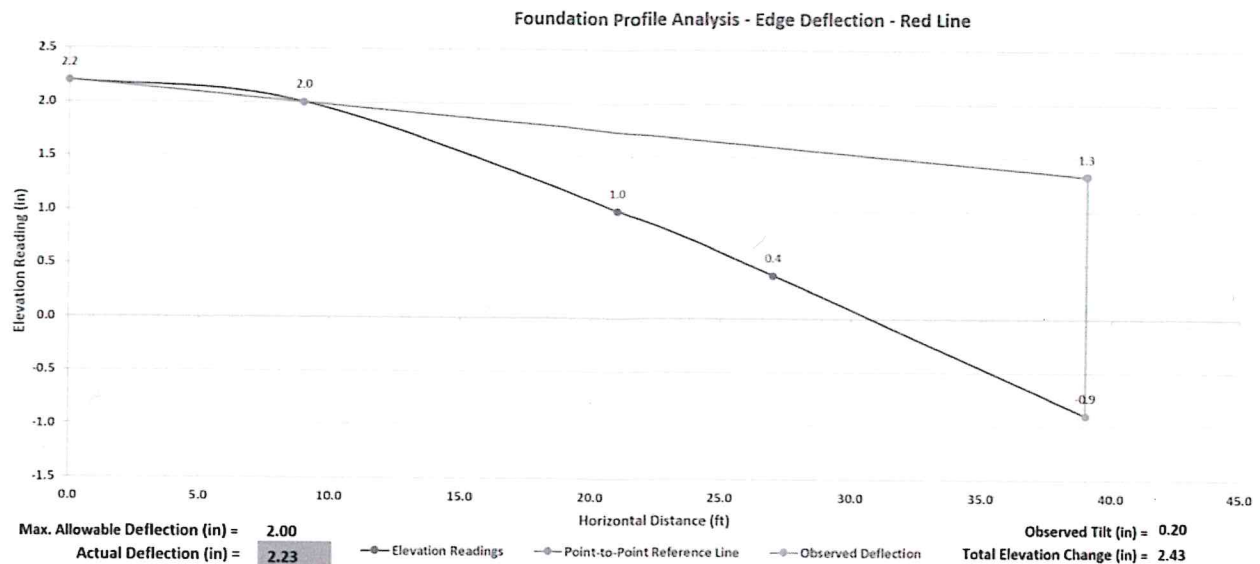
5.28.26

HEI

Serna



**Elevation Readings
8139 Silent Deep Drive
(Not to Scale)**



Observations

5.4.1 FOUNDATION CONCLUSIONS

REPAIR RECOMMENDED

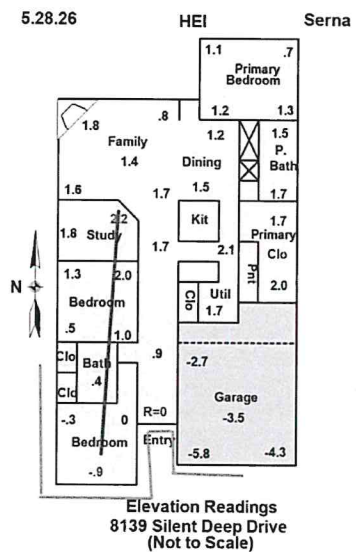
Most of the structures previously inspected by this firm have experienced some degree of differential foundation movement, and this structure was no exception. After careful examination, the engineering analysis above showed that the degree of the foundation movement **is more than what is acceptable by the standards set forth by the American Society of Civil Engineers**. The most significant movement was located at the south.

Due to the more than acceptable amount of movement of the foundation of this structure, **the foundation needs to be releveled**. It is recommended that at least **three foundation repair contractors** be contacted in order that they may make their own assessment of the scope and cost of the work needed to bring this foundation back to an acceptable degree of levelness. Each foundation repair contractor should provide their own design proposal showing the types of piers to be used to underpin the foundation, the number of piers, and the pier locations, along with their warranty information. Note that HEI does not prepare or approve foundation repair designs due to a multitude of potential engineering, legal, and/or ethical issues.

Obtain Cost Estimate

Recommendation

Contact a foundation contractor.



Approximate area in need of repair.

JOB ADDRESS 8139 Silvest Deep Dr
 NAME Robert Van Slyke PHONE 713.685.5531
 E-MAIL _____
 INSPECTOR Tim Davis DATE 1.28.76



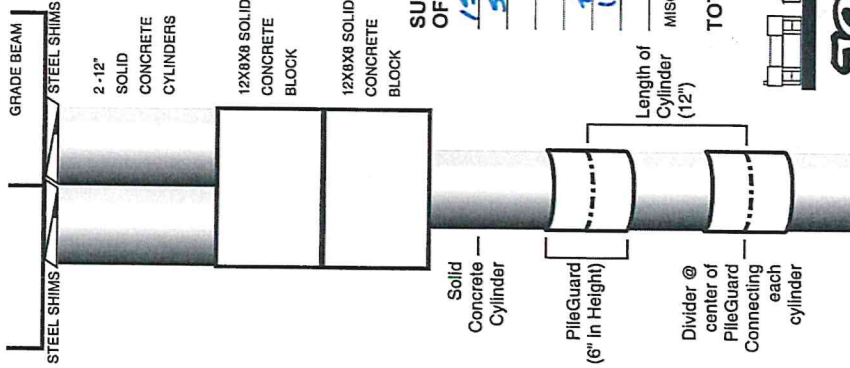
\$ 14,350

SUGGESTED SCOPE OF WORK

15 EXTERIOR 9,750
 5 INTERIOR 3,750

TUNNELING _____
 ADJUSTMENTS _____
 BREAKOUTS 100
 PERMITS 600
 DISPOSAL FEE 150
 MISC _____

TOTAL BID:



BRICK _____
 STORY _____
 SCALE _____
 SIDING _____

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