



TESTING & INSPECTION REPORT

Client ELLEN NEVINS Date 8-2-04
 Project Name 1 SILVERTHORNE LANE Architect —
 Project Address BELLE MEAD, NEW JERSEY Construction Mgr. —
 Project Address _____ Engineer A.E.T.
 Contractor TOLL BROTHERS Project # R400119

A U.S. Engineering Laboratories representative was present at the above referenced site for the following activities:

Concrete Inspection

_____ yds. of _____ psi concrete were placed at the following locations: _____
 _____ footings _____ foundation walls _____ slabs _____

Results of required concrete tests are summarized on the attached report of concrete inspection.

Reinforcing Steel Inspection

Reinforcing steel was checked for required size, spacing, placement, clearance, lap, cover and cleanliness in accordance with project drawing # _____ shop drawing # _____ at the following locations: _____

Soil Compaction Inspection

Structural fill _____ back fill _____ other () _____ was tested for compaction using a soil moisture-density gauge (#) sand cone _____ at the following locations: _____
 _____ . Project specifications require _____ % of maximum dry density as determined in accordance with ASTM D1557 _____ ASTM D698 _____ . Results are summarized on the attached report of soil compaction.

Foundation Inspection

Shallow foundations were checked at subgrade elevations determined by the contractor. Using a geotechnical probe _____ dynamic cone penetrometer _____ the following footings were _____ were not _____ verified for an allowable soil bearing pressure of _____ as defined in the project specifications _____

Additional Inspections

Masonry _____ Structural Steel _____ Asphalt _____ Fireproofing _____ Other (specify) OVER INSPECTION

Remarks: REPORTED TO THE ABOVE PROJECT TO MONITOR A.E.T. (APPLIED ENGINEERING TECHNOLOGY) AS THEY PERFORMED REINFORCING STEEL DETECTION IN THE BASEMENT CONCRETE WALLS OF THE ABOVE RESIDENCE (2) WALLS WERE SCANNED UTILIZING A HILTI FS 10 FERROSCAN INSTRUMENT. REINFORCING WAS DETECTED AS SHOWN (ATTACHED)

ARRIVED 8:00 DEPARTED 10:00 CLIENT SIGNATURE NOT AVAILABLE

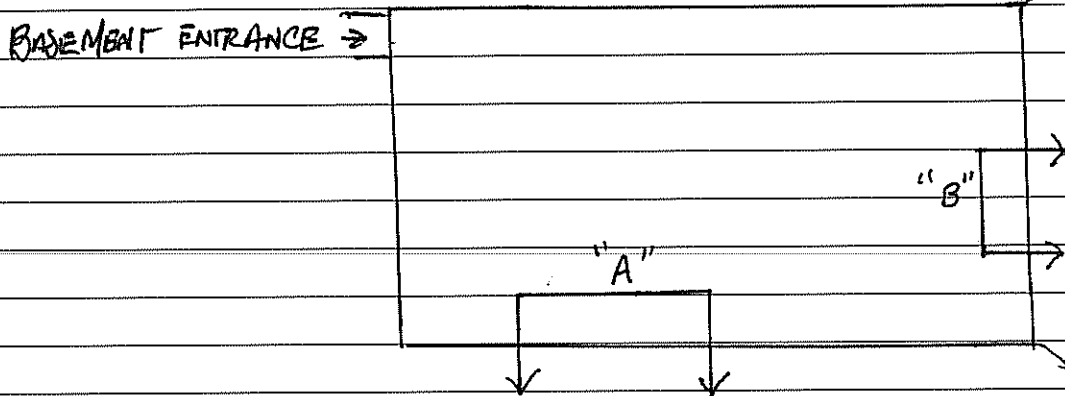
INSPECTORS NAME MARTIN H. MYGRANT (Print Clearly) INSPECTORS SIGNATURE [Signature] DATE 8/2/04

NOTE: This report covers the locations of the work inspected and tested following recognized standards and does not constitute engineering opinion or project control. USLB is not responsible for jobsite safety or safety inspections beyond USLB personnel.

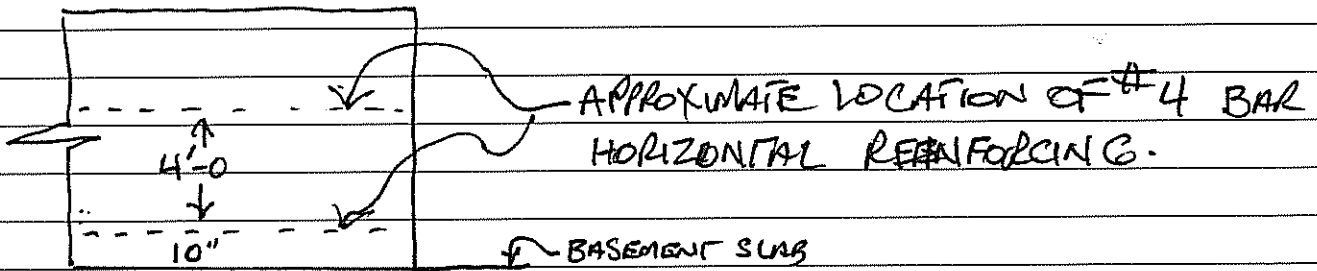
INSPECTION REPORT

Project Name (per plans) 1 SILVERTHORN LANE BELLE MEAD

REAR

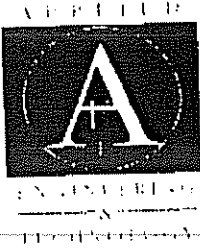


FRONT



SECTION "A" + "B"
(NTS)

ONLY (2) WALLS WERE SCANNED THIS DATE
NO VERTICAL REINFORCING WAS FOUND.
CONCRETE WALLS MEASURED 8" IN THICKNESS



Project No. 23091
August 5, 2004

Mr. James Kozachek
Flaster/Greenberg P.C.
Commerce Center
1810 Chapel Avenue West
Cherry Hill, NJ 08002

REF: Ellen Nevins v. Toll Bros. et al. – Supplemental Report

Dear Mr. Kozachek:

We are writing this letter in response to the two supplemental reports issued by James B. Huffman, P.E. on June 24, 2004 and by Mr. Jerry Howell on July 15, 2004. In his supplemental report, Mr. Huffman outlines four items that he believes to be deficiencies in the original construction at One Silverthorn Lane in Belle Mead, NJ. He also proposes repairs for each of these items. Mr. Howell then issued his report to describe the scope of work and approximate costs that would be required to perform the repairs cited in Mr. Huffman's report.

In this letter, we give our evaluation of each of the four items cited in the above supplemental reports of Mr. Huffman and Mr. Howell, along with any repairs we believe are necessary. We also provide an estimate of approximate costs of any required repairs. These repairs are recommended purely from an engineering point of view. This report does not consider any of the legal or contractual issues of this case. The four items will be discussed in each of the following sections:

1. Foundation Walls – Structure

On August 2, 2004, engineers James Anderson and Harald Greve, P.E. visited the One Silverthorn Lane to perform non-destructive testing to determine the extent of steel reinforcement in the concrete basement walls. A Hilti Ferroskan device was used to locate the reinforcement in the basement walls. It was found that there are two horizontal reinforcing bars in the foundation wall, one at the bottom and one at the middle portion of the wall. These horizontal bars are intended to limit shrinkage cracking of the concrete. No vertical bars were found, so an analysis was conducted to determine if they would be required in the 8 inch thick walls.

Building Code Requirements For Structural Plain Concrete (ACI 318.1-89) is the code that BOCA 1993 references for this type of foundation wall. This is the code that governs for this type and time of construction (see Appendix). Our structural analysis of the basement concrete walls was performed in accordance with this code and it indicates that vertical reinforcement is not necessary since bending stresses are within allowable limits for plain concrete. Therefore no repairs to strengthen the basement walls are required.