

August 5, 1997

City of Brownsville  
Post Office Box 911  
Brownsville, Texas 78520

Attn: John Walker, P.E.

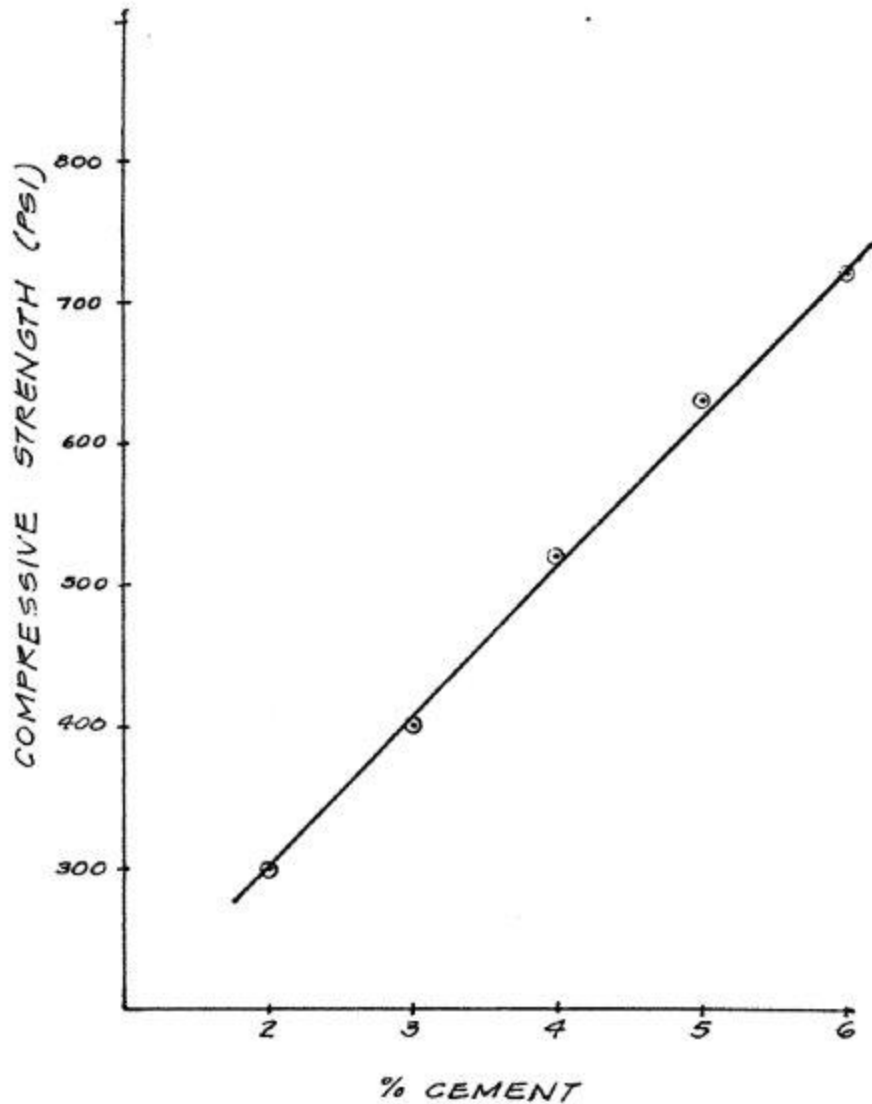
Re: 21st Year C.D.B.G. Reprogramming  
Street Improvement Project  
Brownsville, Texas  
PSI Report No.: 328-70020-6

At the request of the City of Brownsville, PSI representatives obtained two separate field samples of material. The first sample (Location 1) was obtained from an area next to the east curb, approximately 20 feet north of the intersection of Taft Street and East 16th Street. The second sample (Location 2) was obtained from an area next to the west curb, approximately 20 feet north of the intersection of East Jefferson Street and East 4th Street. The samples were returned to the lab for analysis.

The sample for each location was mixed properly and a portion for each was removed and the compaction characteristics for each was determined (ASTM-698). This initial proctor curve served as a point of beginning for further analysis.

The sample for each location was divided into two parts, one to receive a roadbase stabilizer (EN-1) and the other to be tested without any additive. Each of those parts was then divided into five equal parts. Each of these parts received different increments of cement and were thoroughly mixed. Each sample was then molded, wrapped with plastic and stored to cure. For each molded sample containing the varying amounts of cement, a compression test was performed after seven days of curing time and after twenty-eight days of curing time.

In general, the results indicate that as the percentage of cement increased, so did the compressive strength of the sample. The samples with EN-1 exhibited more strength than those without the additive at the same amount of cement content. The results were plotted on a graph depicting the percent of cement added versus the compression strength, for samples with EN-1 and samples without the additive.



PROJECT NAME

LOCATION I

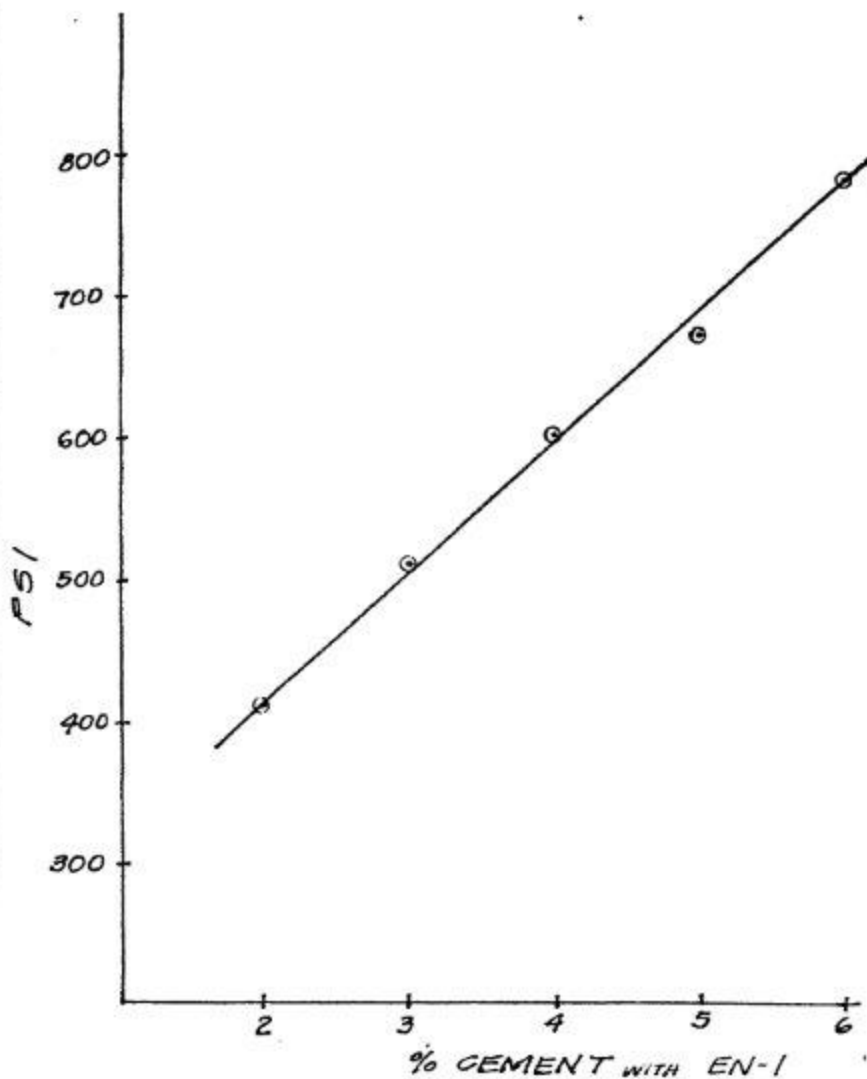
7-DAY BREAK

PROJECT NO

BROWNSVILLE

DATE

JULY 97



PROJECT NAME

LOCATION I

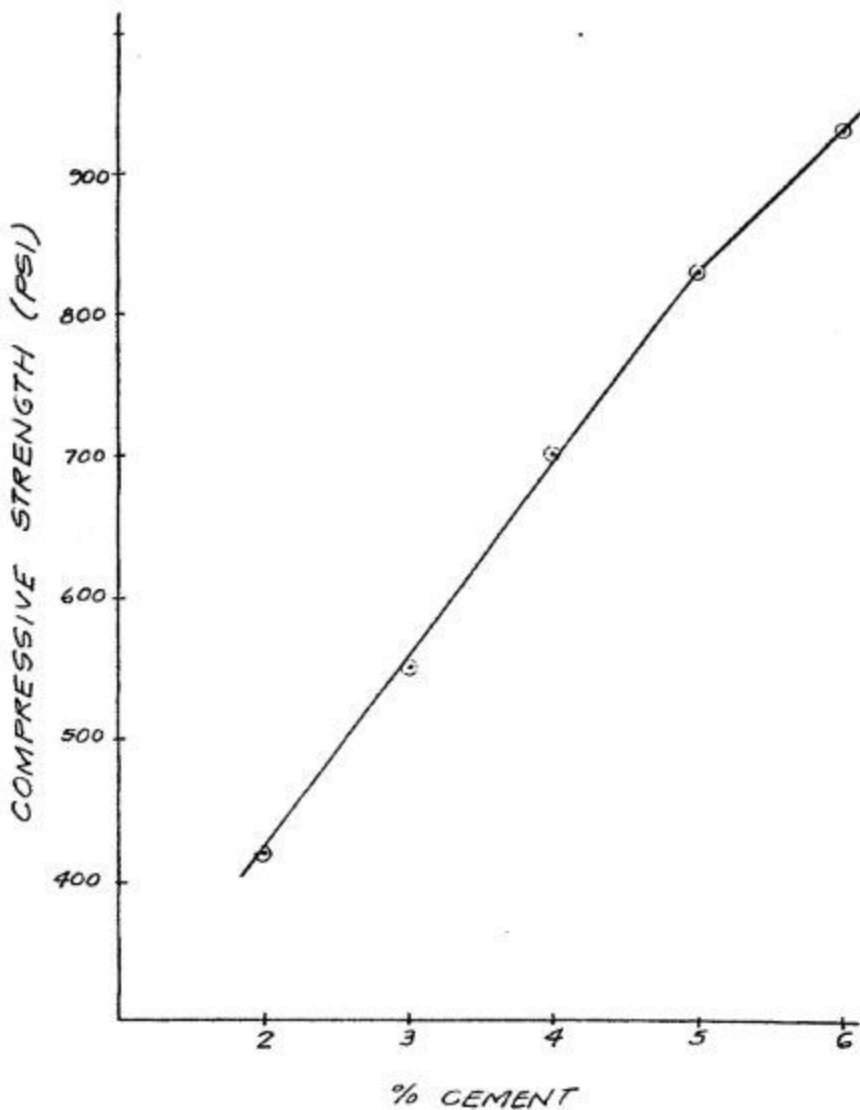
7-DAY BREAK

PROJECT NO.

BROWNSVILLE

DATE

JULY 97



PROJECT NAME

LOCATION I

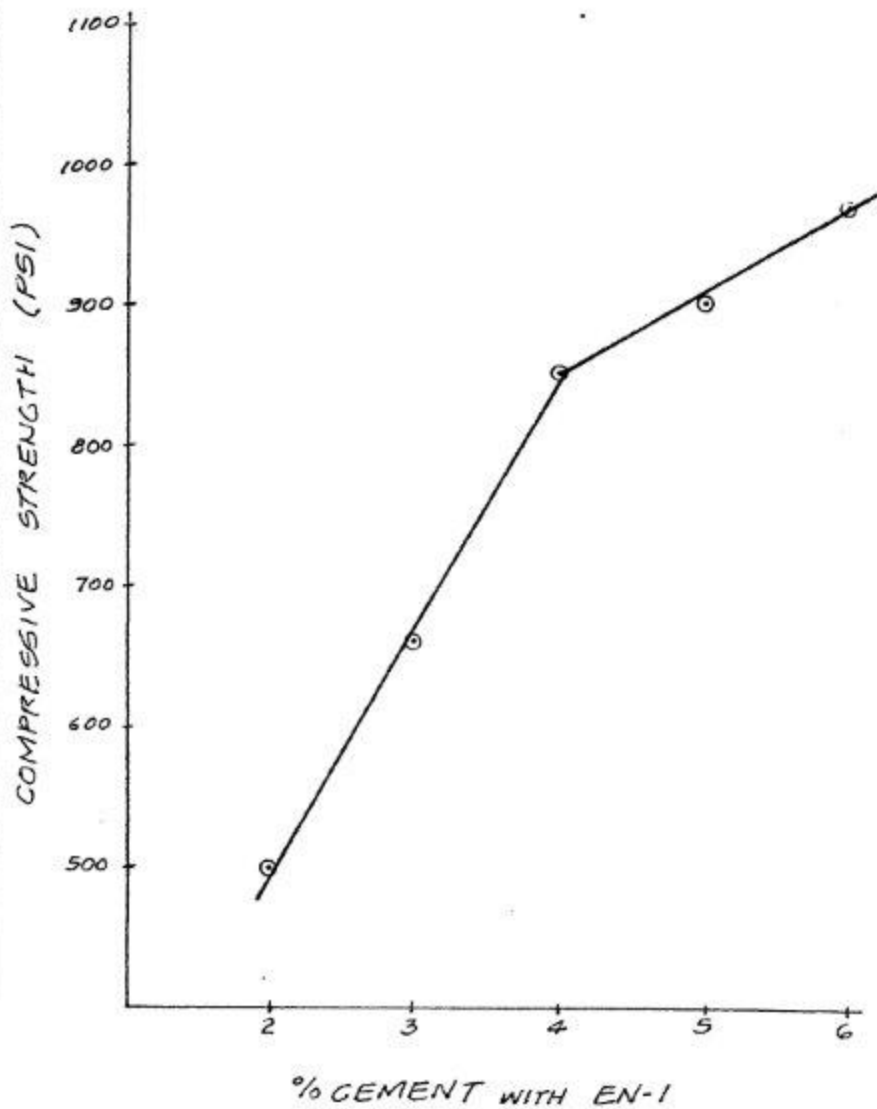
28-DAY BREAK

PROJECT NO

BROWNSVILLE

DATE

JULY 97



PROJECT NAME

28-DAY BREAK

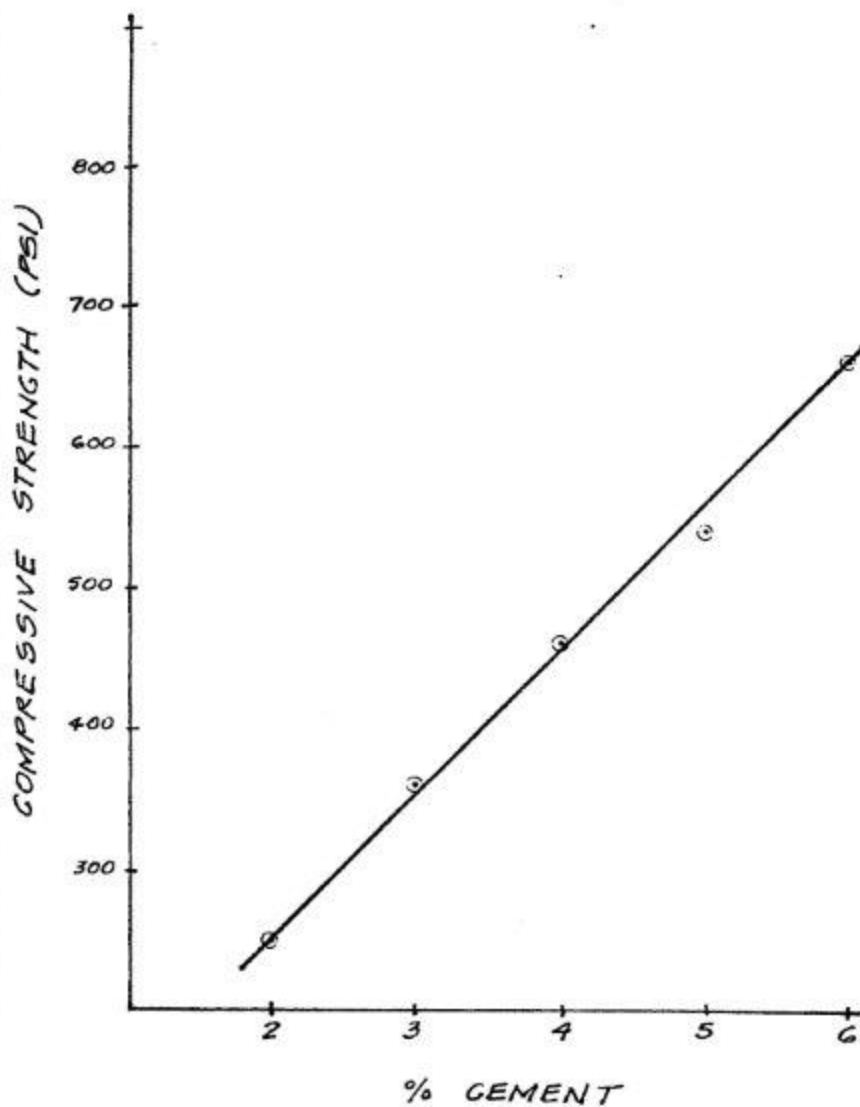
LOCATION I

PROJECT NO.

BROWNSVILLE

DATE

JULY 97



PROJECT NAME

LOCATION II

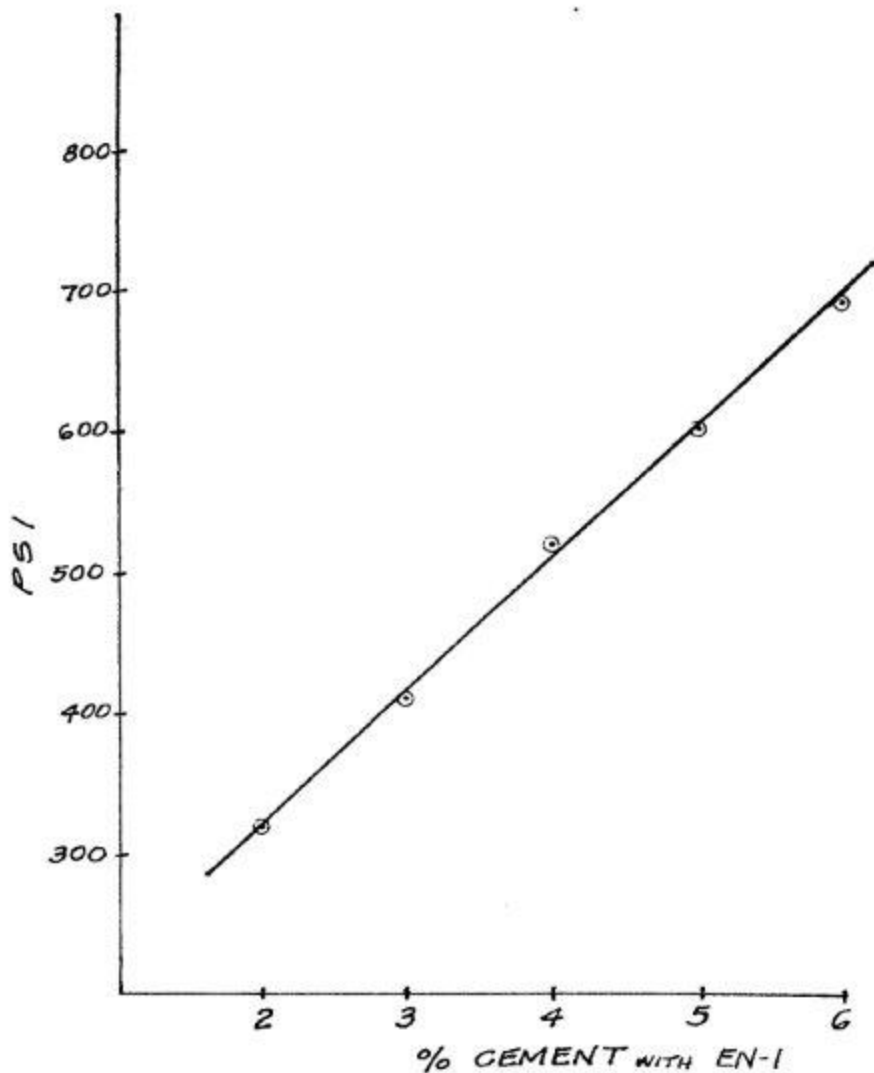
7-DAY BREAK

PROJECT NO.

BROWNSVILLE

DATE

JULY 97



PROJECT NAME

LOCATION II

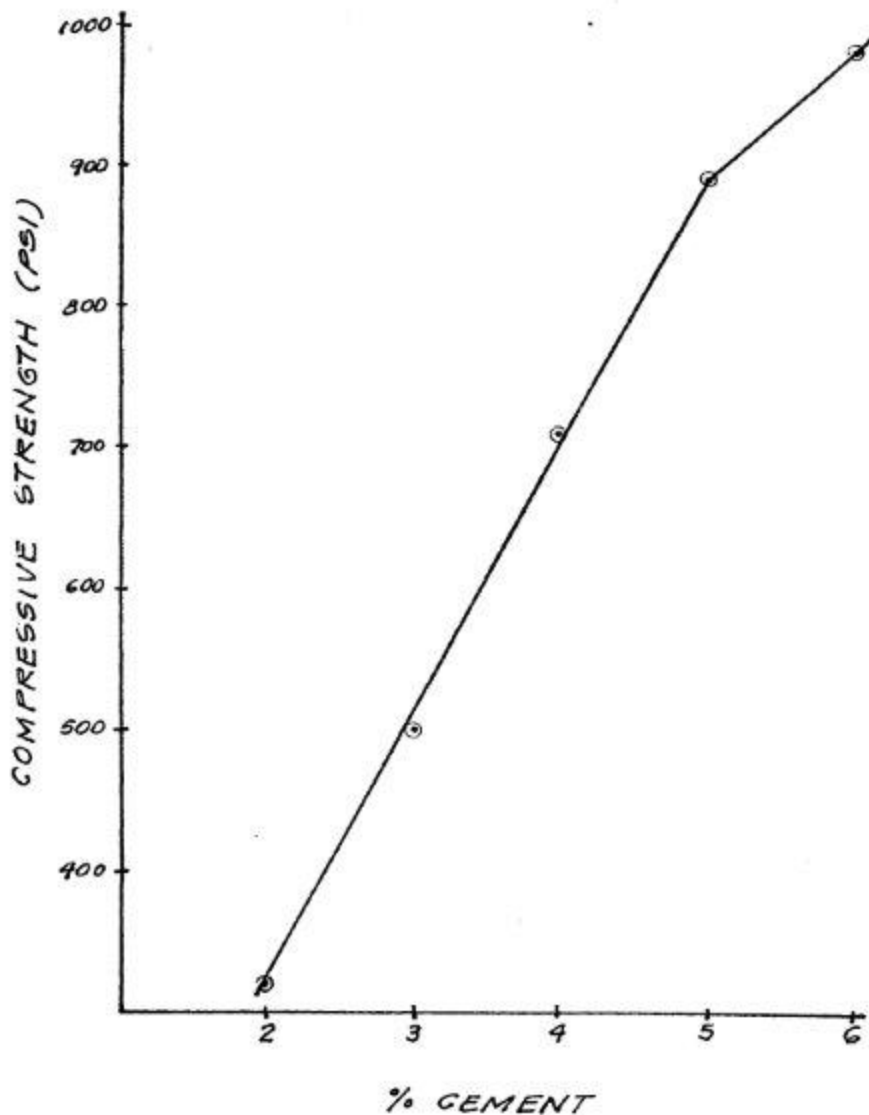
T-DAY BREAK

PROJECT NO.

BROWNSVILLE

DATE

July 97



PROJECT NAME

LOCATION II

28-DAY BREAK

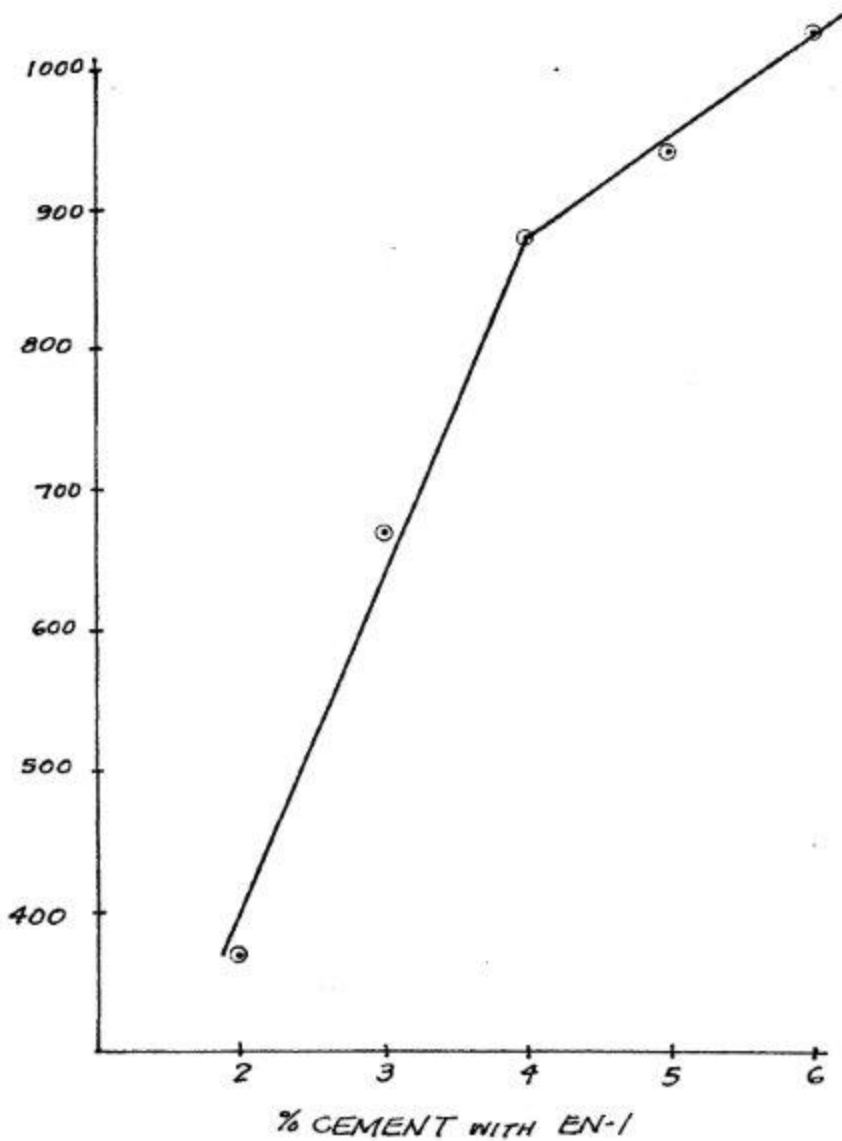
PROJECT NO

BROWNSVILLE

DATE

JULY 97





PROJECT NAME

LOCATION II

28-DAY BREAK

PROJECT NO

BROWNSVILLE

DATE

JULY 97