NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing Date 1-14-2002

Address N. of Francisco Street, Between Harbergate Wy & Normandie Project Number 5936-96

Los Angeles, Calif.

Inspected subgrade compaction for sidewalk areas along South side of Knox Street for a ± 60 feet section at west end by Harbergate Way and ± 950 feet at east end by Normandie Ave. The base material was placed over uncertified subgrade and the subgrade seems to be too wet and loose, therefore no approvals of subgrade or base material will be performed in their current condition.

All base material shall be removed and the exposed subgrade shall be tested to a minimum of 90% relative compaction and approved by this firm prior to the placement of base material.

No approvals were performed at this time.

Accepted by

NorCal Representative

Javier Sanchez

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing

Date 1-08-2002

Address N. of Francisco St. Between Harborgate Wy & Normandie Ave
Los Angeles, Calif.

Project Number 5936-96

Observation of base material grading operations for the east 1 900 feet of knox street. The base is being compacted but is not ready for compaction testing at this time. The west end of this section got flooded by washing the street and the base material is saturated and very loose. Recommend to remove all standing water and saturated base material. All base material shall be tested to a minimum of 95% relative compaction. NorCal is scheduled to come back tomorrow at 10:00 A.M. for compaction tests.

Accepted by

NorCal Representative

Javier Sanchez

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing Date 1-09-2002

Address N. of Francisco street. Between Harborgate Wy & Normandie Av Project Number S936-96

Los Angeles, Calif

Inspected and tested base material compaction for the east ± 900 feet of knox street. All tests taken resulted in 95% or better with the exception of ± 30 feet at west end of base area, this area got flooded by washing the street and the base material is saturated and not suitable for its intended use in its current condition. The asphalt company will remove all saturated/loose base and the excavations will be backfilled with asphalt. No approvals for this area were performed at this time.

Accepted by

NorCal Representative

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing Date 1-10-2002

Address N. of Francisco street, Between Hawthorne way & Normandie Ave Project Number 5936-96

Los Angeles, Calif.

Tested base material compaction for the east ±200 feet of knox street. Most of this area is compacted to a minimum of 95% relative compaction with the exception of ±50 feet along north and south gutters at the west end of base area. These areas got flooded by washing the street. A test taken in & one of these wet areas resulted below 90% with excessive moisture content. The paving company (R.J NOBLE) will remove these wet/loose base material and the excavations will be backfilled with asphalt under the observation of City of Los Angeles Inspector. In my opinion this method will take care of the current problem.

Accepted by

NorCal Representative

Javier Sanchez

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing Date 1-07-2009

Address N. of Francisco street, Between Hawthorne Wy & Normandie Project Number 5936-96

Los Angeles, Calif.

Observation of base material grading operations for the east 1200 feet of proposed knox street. The base is being placed and compacted but is not ready for compaction testing at this time. NorCal will be back tomorrow morning to test base material compaction.

Carlos Reyes

Accepted by

NorCal Representative

Javier Sanchez