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 8-2-01

Address N. FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY LA Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS FOR ABOVE ADDRESS. OBSERVED ADEQUATE REMOVAL OF SLURRY, ABANDONED PIPES, AND DEMOLITION DEBRIS WITH LABORS, SKIP LOADER, AND SCRAPERS. BOTTOMS ARE APPROVED AND TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. TWO SOIL SAMPLES OF IMPORT MATERIAL IS TAKEN FOR LABORATORY ANALYSIS.

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 8-1-01

Address N-FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY LA. Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. CONCRETE, ABANDONED PIPES, AND DEMOLITION DEBRIS WAS OBSERVED TO HAVE BEEN ADEQUATELY REMOVED FROM FILL SOILS BY USE OF SKIP LOADER AND LABORS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION WITH APPROVE BOTTOMS.

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 7-31-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY LA.

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AND KNOX ST. UTILITY TRENCH BACKFILL, AT ABOVE ADDRESS. TEST RESULTED IN 90% OR BETTER RELATIVE COMPACTION, WITH APPROVED BOTTOMS.

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 7-30-2001

Address N. Of Francisco st. Between Harbor gate Wy & Normandie Project Number 5936-96

Los Angeles, Calif.

Field Supervisor for site grading operations and storm drain trench backfill at proposed knox street.

A portion of storm drain trench at knox street was backfilled and properly compacted under the observation of this firm, the backfilled areas was properly water jetted prior to the placement of compacted fill soils.

Demolition debris, underground structures and abandoned utility lines encountered today during grading operations were removed from the fill areas under the observation of this firm. Compaction tests are being performed by our soils Technician on site.

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 7-30-01

Address N. FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY LA.

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AND KNOX ST UTILITY TRENCH BACK FILL. PROPER JETTING OF SAND WAS OBSERVED AT KNOX ST. AND ADEQUATE REMOVAL OF DEMOLITION DEBRIS WAS OBSERVED USEING LABORS AND SKIP LOADER AT ON SITE GRADING AREA. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION

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 7-27-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY LA. Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AND KNOX ST. UTILITY TRENCH BACKFILL AT ABOVE ADDRESS. DEMOLITION DEBRIS, AND ABANDOND PIPE ARE ADEQUATELY BEING REMOVED. KNOX ST. AND GRADING TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION, BOTTOMS ARE APPROVED.

Accepted by

NorCal Representative