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 9-25-01

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

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. ABANDONED UTILITIES, FOOTINGS, SLURRY DEBRIS ARE ADEQUATELY REMOVED TO COMPETANT NATIVE SOIL. 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 9-24-01

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

OBSERVED AND TESTED GRADING OPERATIONS FOR ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. DEBRIS OF CONCRETE, PIPES, ABANDONED UTILITIES WERE ADEQUATELY REMOVED FROM FILL AREA.

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 9-21-01

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

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. CONCRETE, SLURRY, AND ABANDOND PIPES DEBRIS WERE ADEQUATELY REMOVED. BOTTOMS ARE APPROVED TO 15' BELOW GRADE INTO COMPETANT NATIVE MATERIAL. WELL WAS CAPPED WITH 1' CONCRETE APPROXIMATELY 10' BELOW SUBGRADE NORTH OF KNOX ST. AND APPROXIMATELY 30' OFF OF HARBOR GATEWAY.

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 9-20-01

Address N- FRANCISCO BETWEEN NORMADIC AND HARBOR GATE WAY LA.

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. PIPE AND CONCRETE DEBRIS ARE ADEQUATELY BEING REMOVED.

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 9-19-01

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

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. ABANDONED PIPES, BRICK, AND CONCRETE DEBRIS ARE ADEQUATELY BEING REMOVED. TEST 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 9-18-01

Address N- FRANCISCO BETWEEN NORMANDE AND HARBOR GATE WAY LA. Project Number 5936

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. ABANDOND WELLS, PIPES, AND CONCRETE DEBRIS ARE ADEQUATELY REMOVED. TESTS RESULTED IN 90% 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 9-12-01

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

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. CONCRETE SLABS AND FOOTINGS AND SLURRY IS ADEQUATELY REMOVED

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 9-15-01

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

OBSERVED AND TESTED GRADING OPERATION AT ABOVE ADDRESS. BOTTOMS APPROVED INTO COMPITANT NATIVE MATERIAL APPROXIMATELY 10'. 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 9-14-01

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

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATION AT ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. DUCKBANKS, CONCRETE DEBRIS ARE ADEQUATELY REMOVED.

Accepted by

NorCal Representative