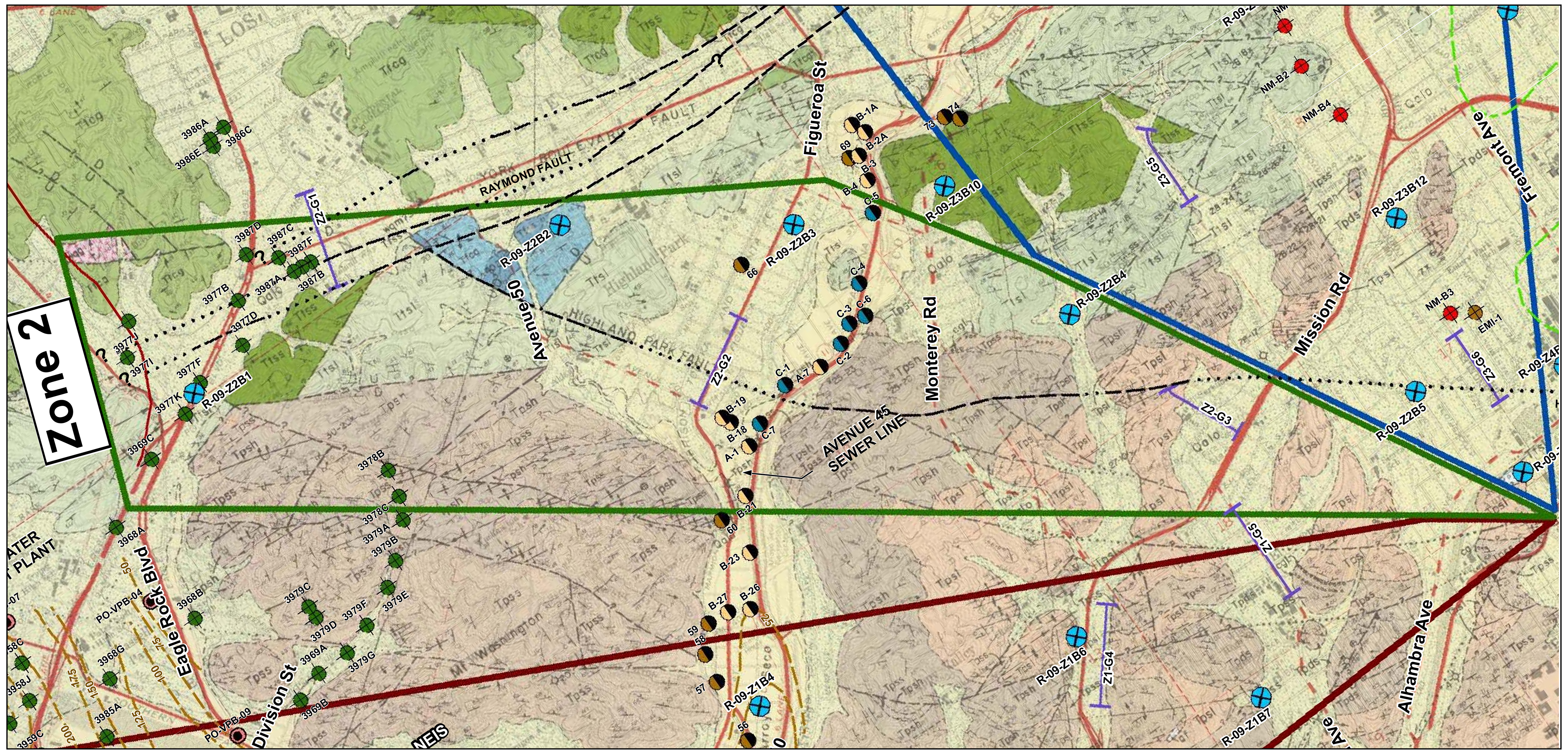
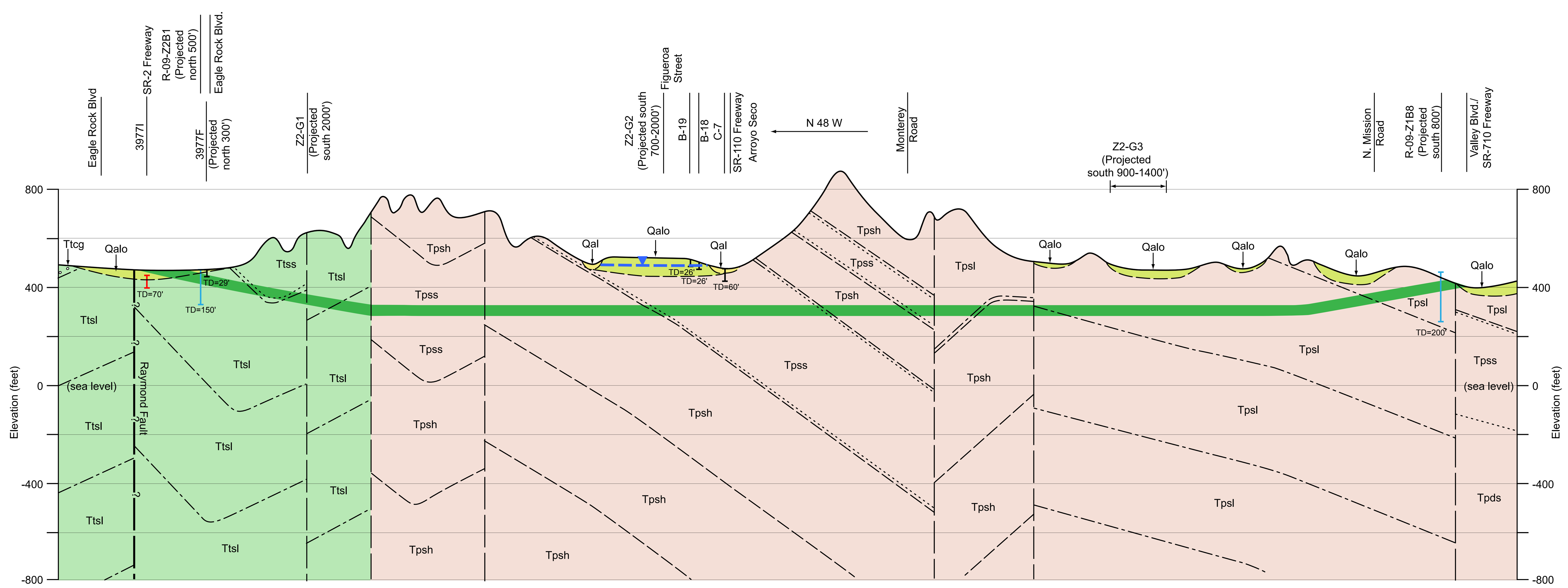
Geotechnical Map



Representative Geologic Profile for Zone 2



EXPLANATION

UNITS (from Lamar, 1970)

Quaternary Deposits

- Qal — Alluvium: silt, sand and gravel
- Qalo — Old Alluvium: silt, sand and gravel forming dissected alluvial plain and alluvial terrace deposits

Puente Formation (Late Miocene)

- Tpsl — Siltstone: well bedded, light brown and light gray
- Tpsh — Shale: well bedded, light gray, siliceous
- Tpds — Diatomaceous Shale: punky, dull white
- Tpss — Sandstone: well bedded, medium-to-coarse-grained, light brown to gray

Topanga Formation (Middle Miocene)

- Ttss — Sandstone: Well bedded, medium-to coarse-grained, brown
- Ttcg — Conglomerate: Massive to well bedded, light brown
- Ttsl — Siltstone: Well bedded, medium to dark brown

SYMBOLS (All locations are approximate)

- Typical Tunnel Profile
- Historically Highest GW Level (CDMG, 1998d)
- Inactive Fault
- Active Fault
- Geologic Contact, dashed where inferred or indefinite
- R-09-Z1B3 Continuous Core Boring (CH2M HILL, this study)
- 2760 B Boring (Yerkes, et al, 1977)
- B-105 Boring (City of Los Angeles, 2001)
- Z1-G2 Seismic Reflection Line (CH2M HILL, this study)

HORIZONTAL GRAPHIC SCALE

2,000 0 1,000 2,000

Data Sources:

CDMG (1998d)
City of Los Angeles (2001)
JMMI (1992)
Lamar (1970)
Yerkes, et al (1977)

Legend

(All Locations are Approximate)

- R-09-Z1B8 Continuous Core Boring (CH2M HILL, this study)
- W12ASMW2 Facility Monitoring Well (CH2M HILL, 2009)
- Caltrans As-built LOTB's (Various Locations)
- 4077B Water Production Well; Location for which only Groundwater Data in Available (LACDPW, 2009)
- EMI-1 Continuous Core Boring (EMI, 2006)
- A-1 and B-3 Geotechnical Boring (City of Los Angeles, 2000, 2006a, and 2006b)
- C-1 Geotechnical Boring (URS, 2006)
- MW-17 Groundwater Monitoring Well (CH2M HILL, 2006)
- CA-DSW Water Production Well (Geosyntec, 2004)
- MW1-4 Groundwater Monitoring Well (CH2M HILL, 2003)
- B-90 Geotechnical Boring (City of Los Angeles, 2001)
- NM-B1 Boring (Ninyo and Moore, 1999)
- 80 Geotechnical Boring (Law/Crandall, 1993)
- PO-103-182 Monitoring Well, (JMMI, 1992 and CH2M HILL, 2007)
- 2760c Boring (Yerkes, et al, 1977)
- C-65/C-23f Boring (Caltrans, 1974a)
- ES-1 Geotechnical Boring (Caltrans, 1974b)
- 9D2 Water Production Well (CDWR, 1966)
- 200 Depth to Bedrock in Feet Below Existing Ground Surface (Yerkes, et al, 1977)
- 1400 Structural Contour Line, Elevation at Top of Bedrock in Feet (MSL) (CDWR, 1966 and Geoscience, 2004)
- 220 Groundwater Elevation in Feet (MSL) (San Gabriel Basin - MSGW, 2006 and Raymond Basin - RBMB, 2006 and 2007)
- Z2-G2 Seismic Reflection Line (CH2M HILL, this study)
- Zone 1 Limits
- Zone 2 Limits
- Zone 3 Limits
- NEIS
- ECIS
- Metro Red Line
- Metro Gold Line Eastside Extension (Tunnel Portion)
- Existing Street, Road, or Highway

Source of Base Map: Lamar, 1970

North

0 2,000 4,000 Feet

0 750 1,500 Meters

DRAFT

PLATE 6
Representative Geologic Profile and Geotechnical Map for Zone 2
SR-710 Tunnel Technical Study
Los Angeles County, California

CH2MHILL

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