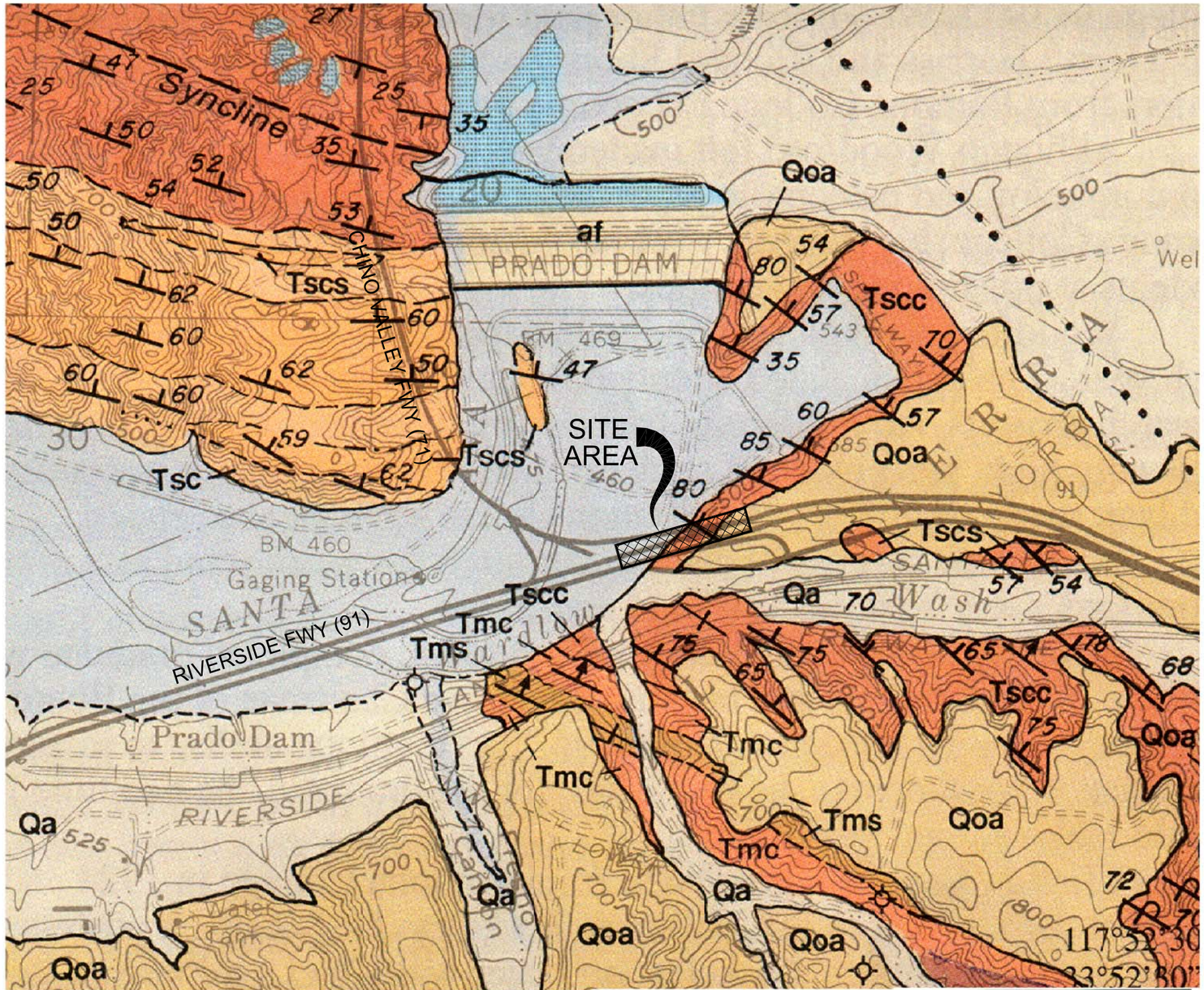

MAP AND CROSS-SECTION SYMBOLS

FORMATION CONTACT — *dashed where inferred or indefinite*

MEMBER CONTACT — *between units of a formation*

CONTACT BETWEEN SURFICIAL SEDIMENTS — *located only approximately in places*

FAULT: *Dashed where indefinite or inferred, dotted where concealed, queried where existence is doubtful. Parallel arrows indicate inferred relative lateral movement. Relative vertical movement is shown by U/D (U=upthrown side, D=downthrown side). Short arrow indicates dip of fault plane. A/D (in cross-section) indicates movement away from or toward viewer*

U 25 ? D A T

FOLDS: ANTICLINE — SYNCLINE

arrow on axial trace of fold indicates direction of plunge; dotted where concealed by surficial sediments

STRIKE AND DIP OF STRATIFIED ROCKS

18 *inclined* — 20 *inclined (approximate)* — 80 *overturned* — *horizontal* — *vertical*

Sandstone marker bed — *Conglomerate marker bed* — *Shale or siltstone strata* — *landslide & direction of landslide movement* — *Volcanic tuff bed* — *Fossil locality* — *Abandoned exploratory oil / gas well*

GRAPHIC SCALE

1000 0 500 1000 2000 4000

1" = 1000'

ADAPTED FROM:

"GEOLOGIC MAP OF THE YORBA LINDA AND PRADO DAM QUADRANGLES (EASTERN PUENTE HILLS)"

Los Angeles, Orange, San Bernadino and Riverside Counties, California

BY THOMAS W. DIBBLEE, JR., 2001

EDITED BY HELMUT E. EHRENSPECK

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QUADRANGLE LOCATION

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

YORBA LINDA AND PRADO DAM QUADRANGLES (Eastern Puente Hills)

MAP DF-75

LEGEND

af / Qg | Qa

SURFICIAL SEDIMENTS

undissected alluvial deposits

af *artificial fill, recent areas not shown*

Qg *gravel/sand of Santa Ana River*

Qa *alluvial gravel, sand and silt of valleys and floodplains*

Qoa

OLDER SURFICIAL SEDIMENTS

Qoa *elevated, dissected remnants of alluvial gravel, sand and silt*

--UNCONFORMITY--

Tsc | Tscs | Tscc

SYCAMORE CANYON FORMATION

(named by Daviess and Woodford, 1949, as uppermost member of Puente Formation; adopted by Durham and Yerkes, 1964, and Yerkes, 1972, in Puente Hills; equivalent to "Unnamed Shale" in Los Angeles quadrangle [Dibblee, 1989, map DF-23] and to Sisquoc Formation in Ventura basin); *mostly marine clastic, moderately indurated; late Miocene age*

Tsc ***silty clay shale facies****: gray, micaceous, vaguely to moderately bedded, locally nodular, in places includes thin layers of fine-grained sandstone*

Tscs ***sandstone facies:*** *light gray to brown, nearly white near Prado Dam, coarse to fine-grained, arkosic, locally includes conglomerate like that of* **Tscc**

Tscc ***conglomerate or eastern facies:*** *light gray, bedded, composed of cobbles and pebbles of mostly light-colored granitic rocks and others of gray quartz diorite, gneiss, andesitic porphyries and quartzite, in arkosic sandstone matrix; may be in part nonmarine*

Tmy | Tmc | Tmss | Tmcg | Tms | Tmlv | Tm

MONTEREY FORMATION

(major part of Puente Fm. of Eldridge and Arnold, 1907; Daviess and Woodford, 1949; Durham and Yerkes, 1964); *marine biogenic and clastic, moderately lithified; middle Miocene age, Mohnian Stage*

Tmy ***Yorba Shale Member:*** *thin-bedded, light gray, white-weathering, platy, siliceous to semi-siliceous to silty, locally includes thin layers of yellowish-gray, hard dolomite, and thin layers of fine-grained sandstone; late Mohnian Stage (Yerkes, 1972)*

Tmss ***Soquel Sandstone Member and facies:*** *mostly bedded sandstone, light gray, weathers tan, mostly medium-grained, arkosic, locally coarse and pebbly, with minor biotite; includes minor silty clay shale*

Tmcg *conglomerate of granitic detritus*

Tms *unassigned sandstone, similar to* **Tmss**

Tm *unassigned shale; similar to* **Tmlv** *&* **Tmy**

Tmlv ***La Vida Shale Member:*** *similar to* **Tmy**, *thin-bedded, cream-white weathering, platy, siliceous to semi-siliceous shale; includes some layers of hard, yellow-gray dolomite; and some thin strata of sandstone*

Tmc ***clay shale facies:*** *gray, slightly siliceous, silty to finely sandy, micaceous*

SCALE MODIFIED FROM 1" = 2000' TO 1" = 1000'

"RIVERSIDE FWY (91)" AND "CHINO VALLEY FWY (71)" HAVE BEEN SUPERIMPOSED ON THIS MAP

GEOLOGIC MAP

PLATE 1

W.O. _____ DATE 02/09 SCALE 1"=1000'