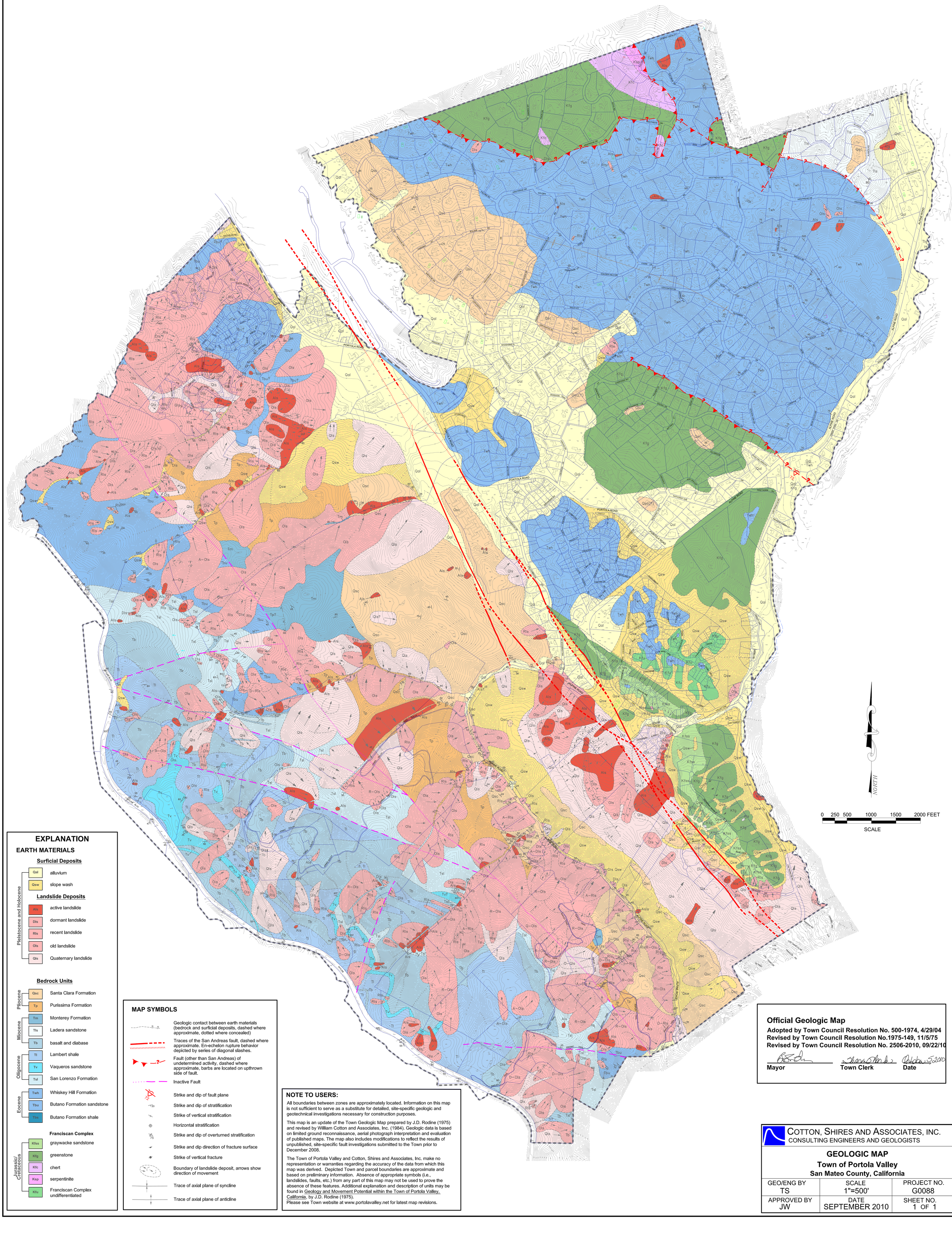
GEOLOGIC MAP

Town of Portola Valley, California



EXPLANATION

EARTH MATERIALS

Surficial Deposits

- Qal — alluvium
- Qsw — slope wash

Landslide Deposits

Pleistocene and Holocene

- Als — active landslide
- Dls — dormant landslide
- Rls — recent landslide
- Ols — old landslide
- Qls — Quaternary landslide

Bedrock Units

Pliocene
- Qsc — Santa Clara Formation
- Tp — Purissima Formation

Miocene
- Tm — Monterey Formation
- Tls — Ladera sandstone
- Tb — basalt and diabase

Oligocene
- Tl — Lambert shale
- Tv — Vaqueros sandstone
- Tsl — San Lorenzo Formation

Eocene
- Twh — Whiskey Hill Formation
- Tbu — Butano Formation sandstone
- Tbs — Butano Formation shale

Franciscan Complex

Jurassic/Cretaceous
- Kfss — graywacke sandstone
- Kfg — greenstone
- Kfc — chert
- Ksp — serpentinite
- Kfu — Franciscan Complex undifferentiated

MAP SYMBOLS

- Geologic contact between earth materials (bedrock and surficial deposits, dashed where approximate, dotted where concealed)
- Traces of the San Andreas fault, dashed where approximate. En-echelon rupture behavior depicted by series of diagonal slashes.
- Fault (other than San Andreas) of undetermined activity, dashed where approximate, barbs are located on upthrown side of fault.
- Inactive Fault
- Strike and dip of fault plane
- Strike and dip of stratification
- Strike of vertical stratification
- Horizontal stratification
- Strike and dip of overturned stratification
- Strike and dip direction of fracture surface
- Strike of vertical fracture
- Boundary of landslide deposit, arrows show direction of movement
- Trace of axial plane of syncline
- Trace of axial plane of anticline

NOTE TO USERS:

All boundaries between zones are approximately located. Information on this map is not sufficient to serve as a substitute for detailed, site-specific geologic and geotechnical investigations necessary for construction purposes.

This map is an update of the Town Geologic Map prepared by J.D. Rodine (1975) and revised by William Cotton and Associates, Inc. (1984). Geologic data is based on limited ground reconnaissance, aerial photograph interpretation and evaluation of published maps. The map also includes modifications to reflect the results of unpublished, site-specific fault investigations submitted to the Town prior to December 2008.

The Town of Portola Valley and Cotton, Shires and Associates, Inc. make no representation or warranties regarding the accuracy of the data from which this map was derived. Depicted Town and parcel boundaries are approximate and based on preliminary information. Absence of appropriate symbols (i.e., landslides, faults, etc.) from any part of this map may not be used to prove the absence of these features. Additional explanation and description of units may be found in Geology and Movement Potential within the Town of Portola Valley, California, by J.D. Rodine (1975).
Please see Town website at www.portolavalley.net for latest map revisions.

Official Geologic Map

Adopted by Town Council Resolution No. 500-1974, 4/29/04
Revised by Town Council Resolution No.1975-149, 11/5/75
Revised by Town Council Resolution No. 2506-2010, 09/22/10

Mayor _____ Town Clerk _____ Date _____

COTTON, SHIRES AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND GEOLOGISTS

GEOLOGIC MAP
Town of Portola Valley
San Mateo County, California

GEO/ENG BY	SCALE	PROJECT NO.
TS	1"=500'	G0088
APPROVED BY	DATE	SHEET NO.
JW	SEPTEMBER 2010	1 OF 1