Appendix K. Geotechnical, Subsurface, Seismic, and Paleontological Technical Report Appendix A: Attachments 1-2

ATTACHMENT 1

Project Maps

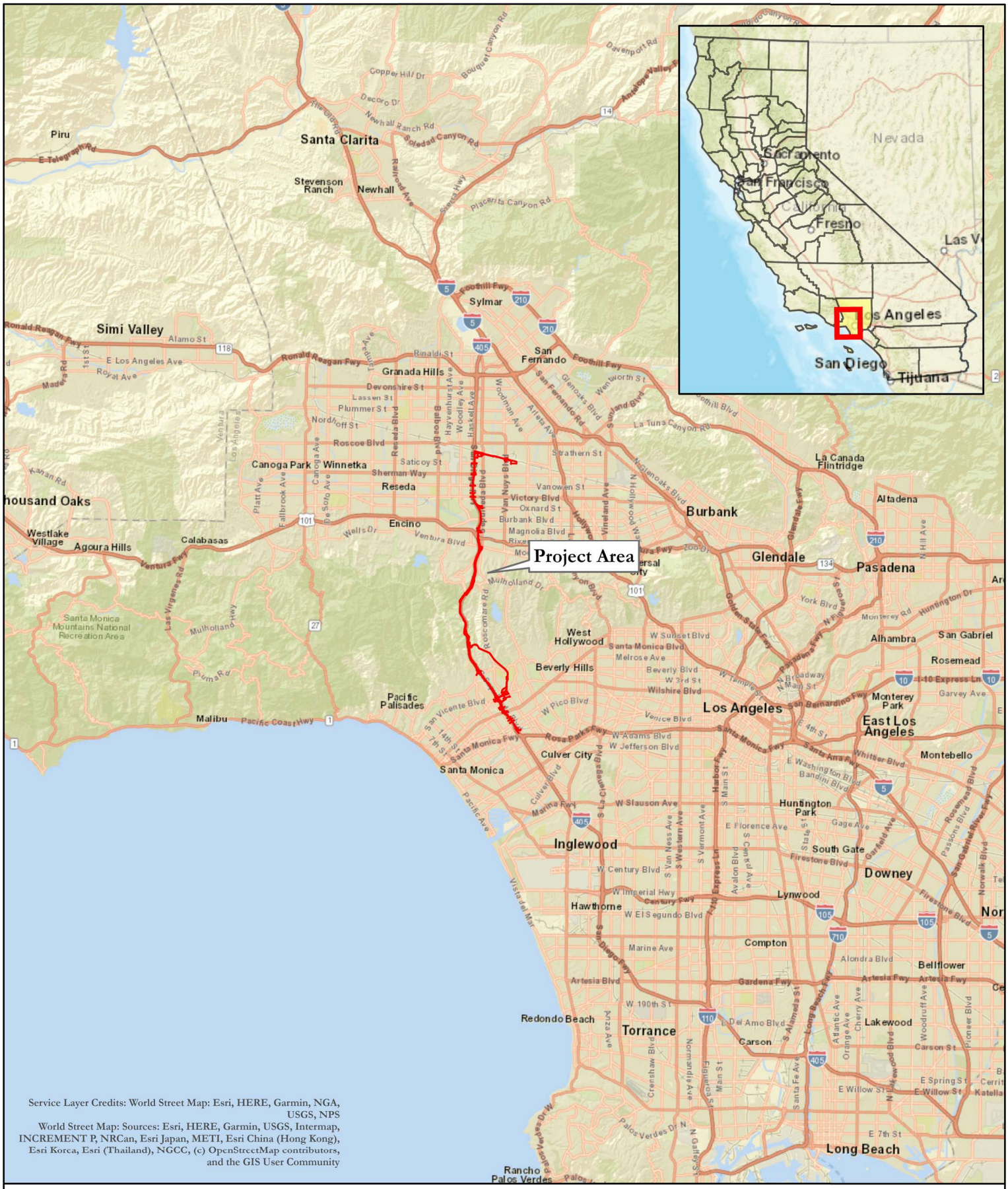

Figure 1a. Project Vicinity

Sepulveda Transit Corridor Project Alternatives 1 & 3
Contract No. AE67085000

Project Area

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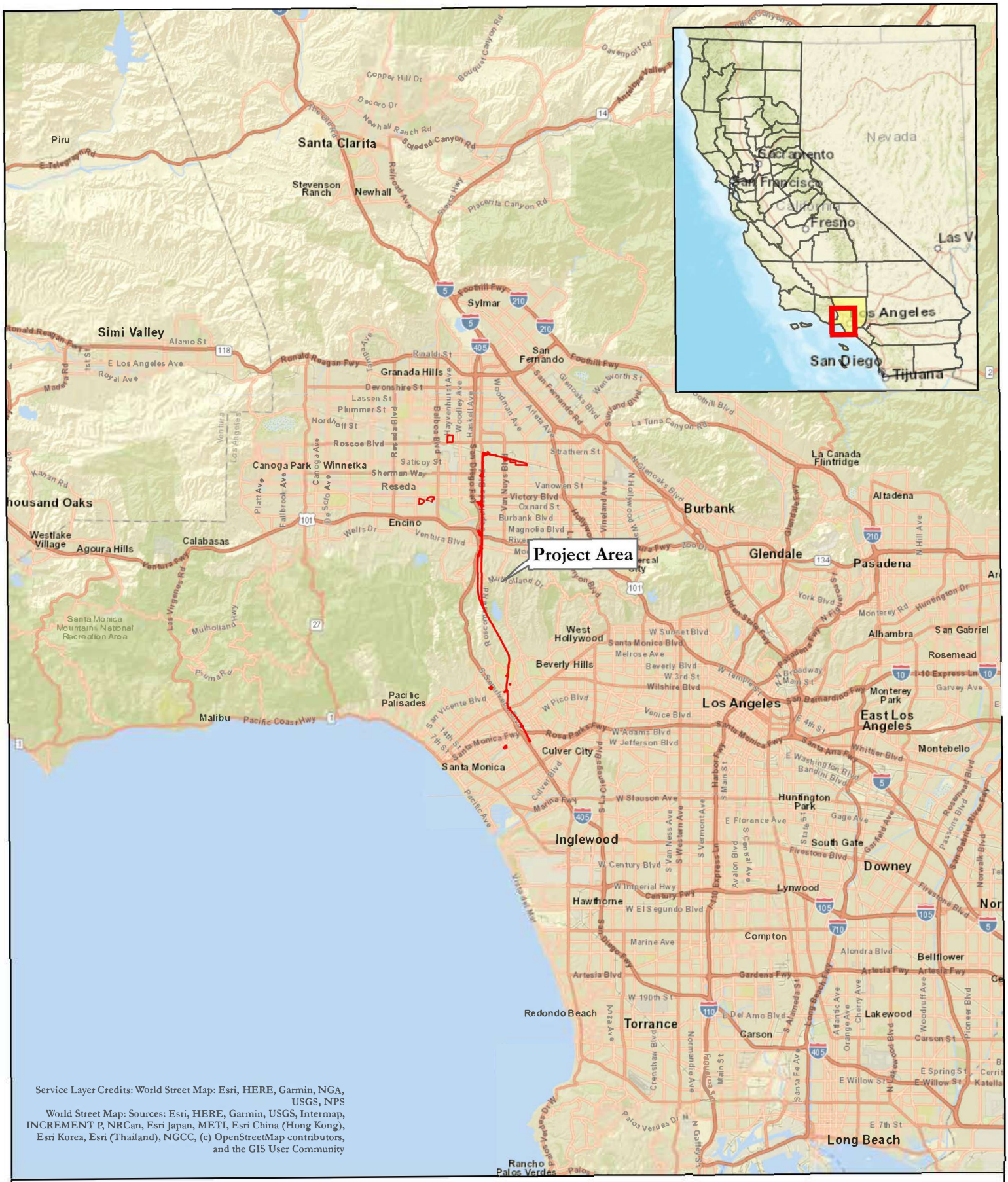

Figure 1b. Project Vicinity

Sepulveda Transit Corridor Project Alternatives 4 & 5

Contract No. AE67085000

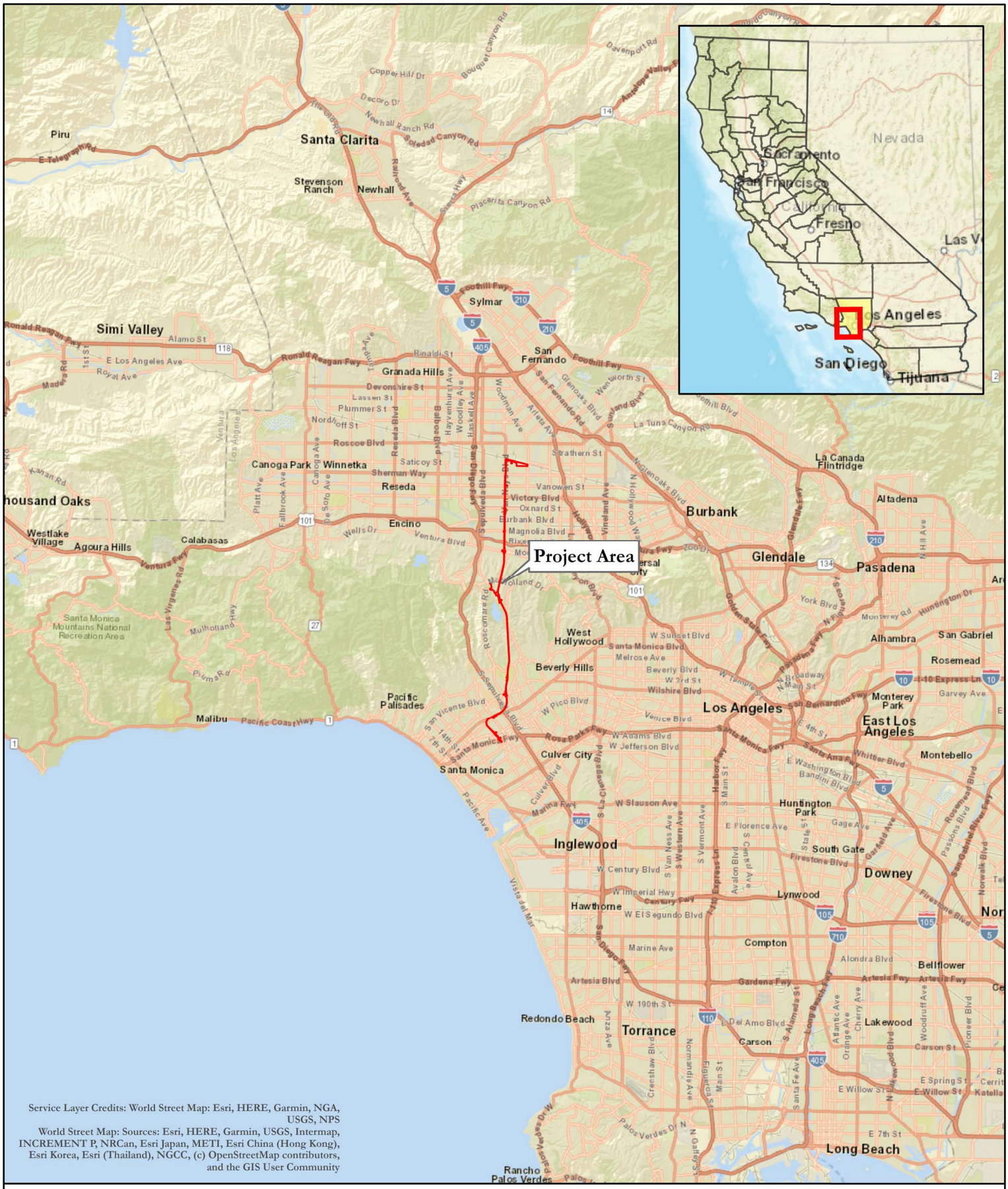

Figure 1c. Project Vicinity

Sepulveda Transit Corridor Project Alternative 6
Contract No. AE67085000

Project Area

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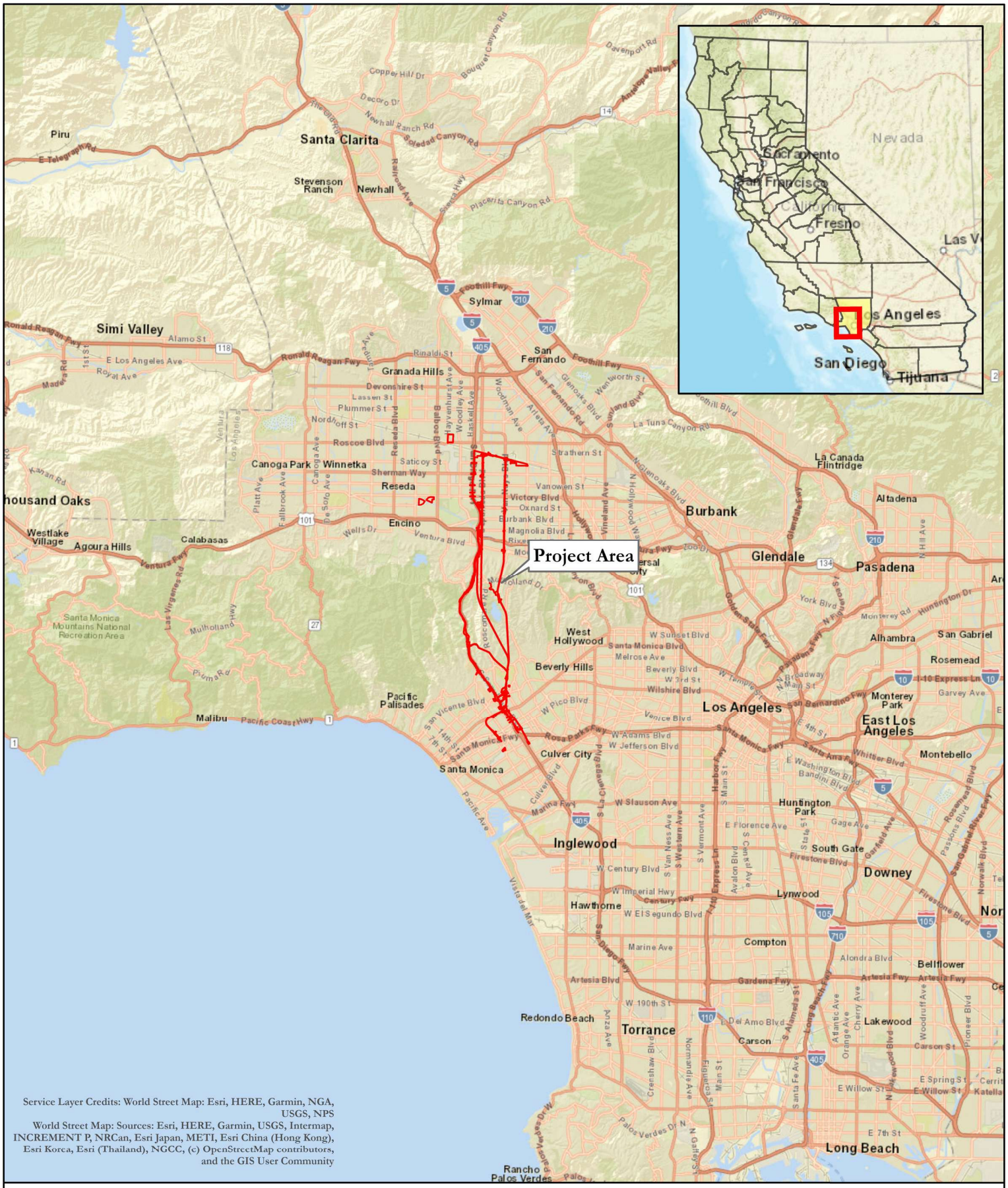

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World Street Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

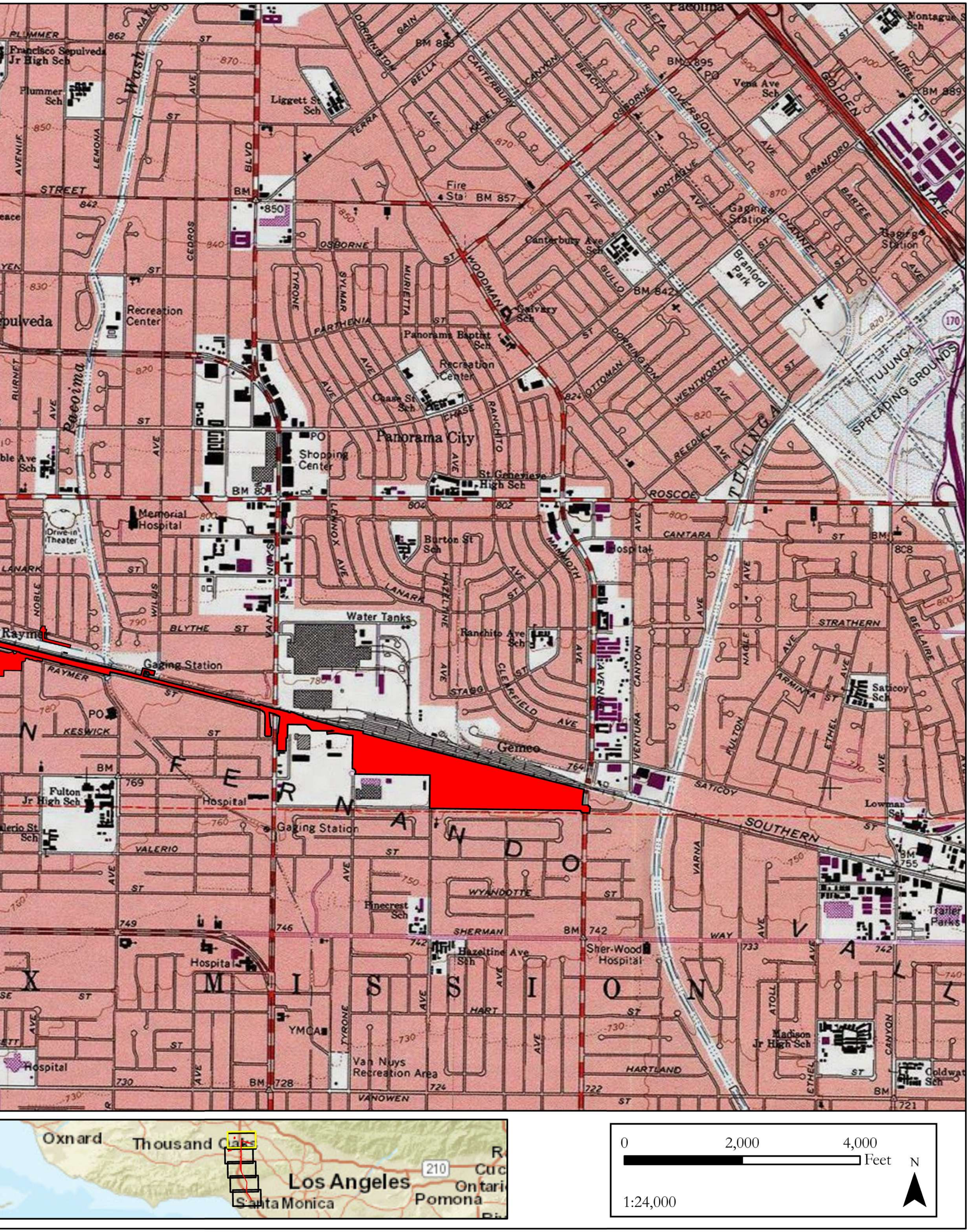
Figure 1. Project Vicinity

Sepulveda Transit Corridor Project - All Alternatives
Contract No. AE67085000

Project Area

0 6 12 Miles N

1 inch = 6 miles 1:360,000



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BM 857
Canterbury Ave Sch
Gaging Station
Branford Park
Recreation Center
Sepulveda
Calvary Sch
Panorama Baptist Sch
Recreation Center
Chase St Sch
Pacoima
Tujunga Spreading Grounds
Panorama City
Shopping Center
St Genevieve High Sch
Memorial Hospital
Drive-in Theater
Burton St Sch
Hospital
Water Tanks
Ranchito Ave Sch
Gaging Station
Saticoy Sch
Gemco
Fulton Jr High Sch
Hospital
Valerio St Sch
Gaging Station
Lowman Sch
Southern
Pinecrest Sch
Hazeltine Ave Sch
Sher-Wood Hospital
Trailer Parks
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YMCA
Van Nuys Recreation Area
Madison Jr High Sch
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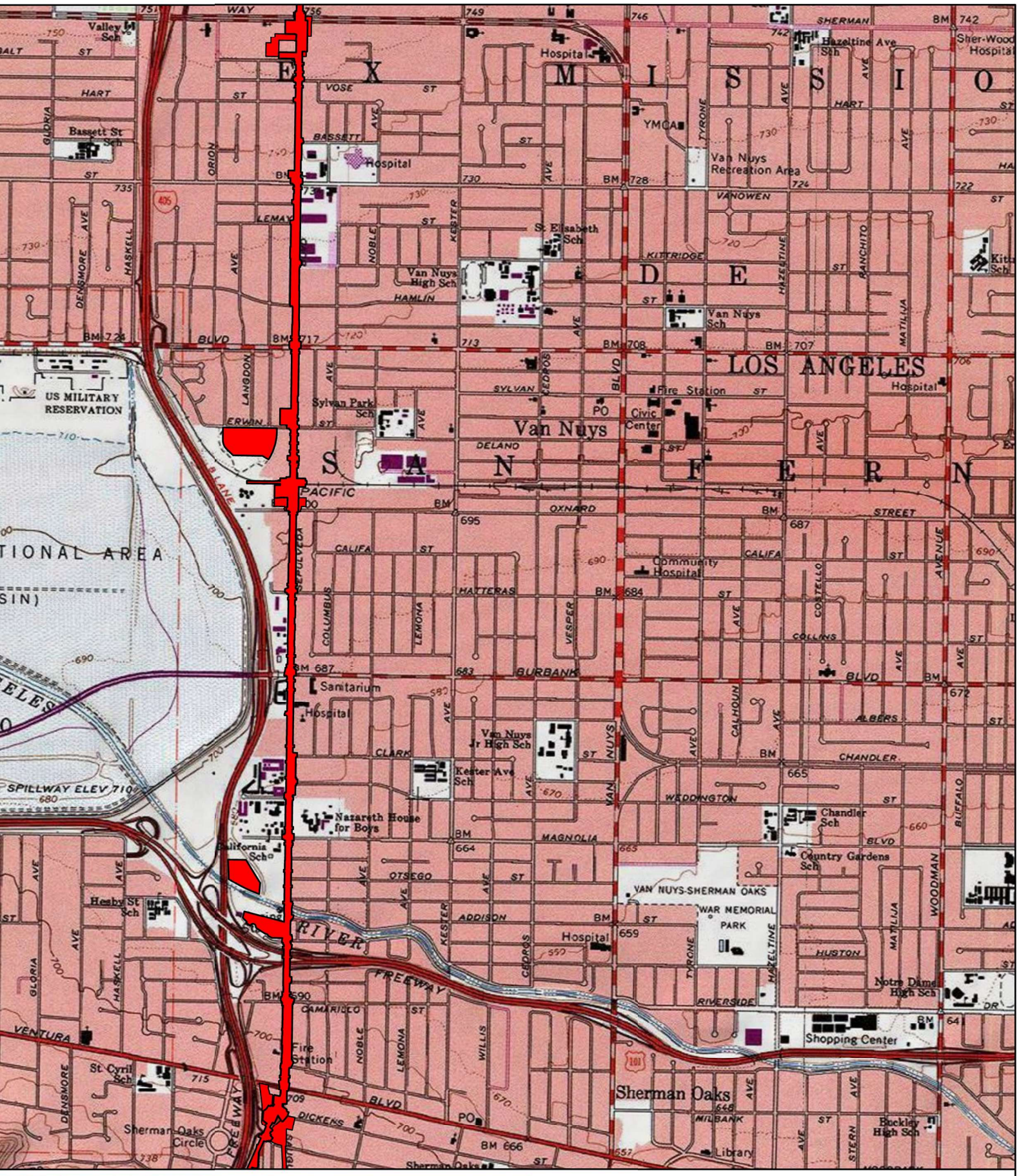
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Country Gardens Sch
Notre Dame High Sch
St Cyril Sch
Hesby St Sch
Nazareth House for Boys
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Library
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US MILITARY RESERVATION
VAN NUYS-SHERMAN OAKS WAR MEMORIAL PARK
SPILLWAY ELEV 710
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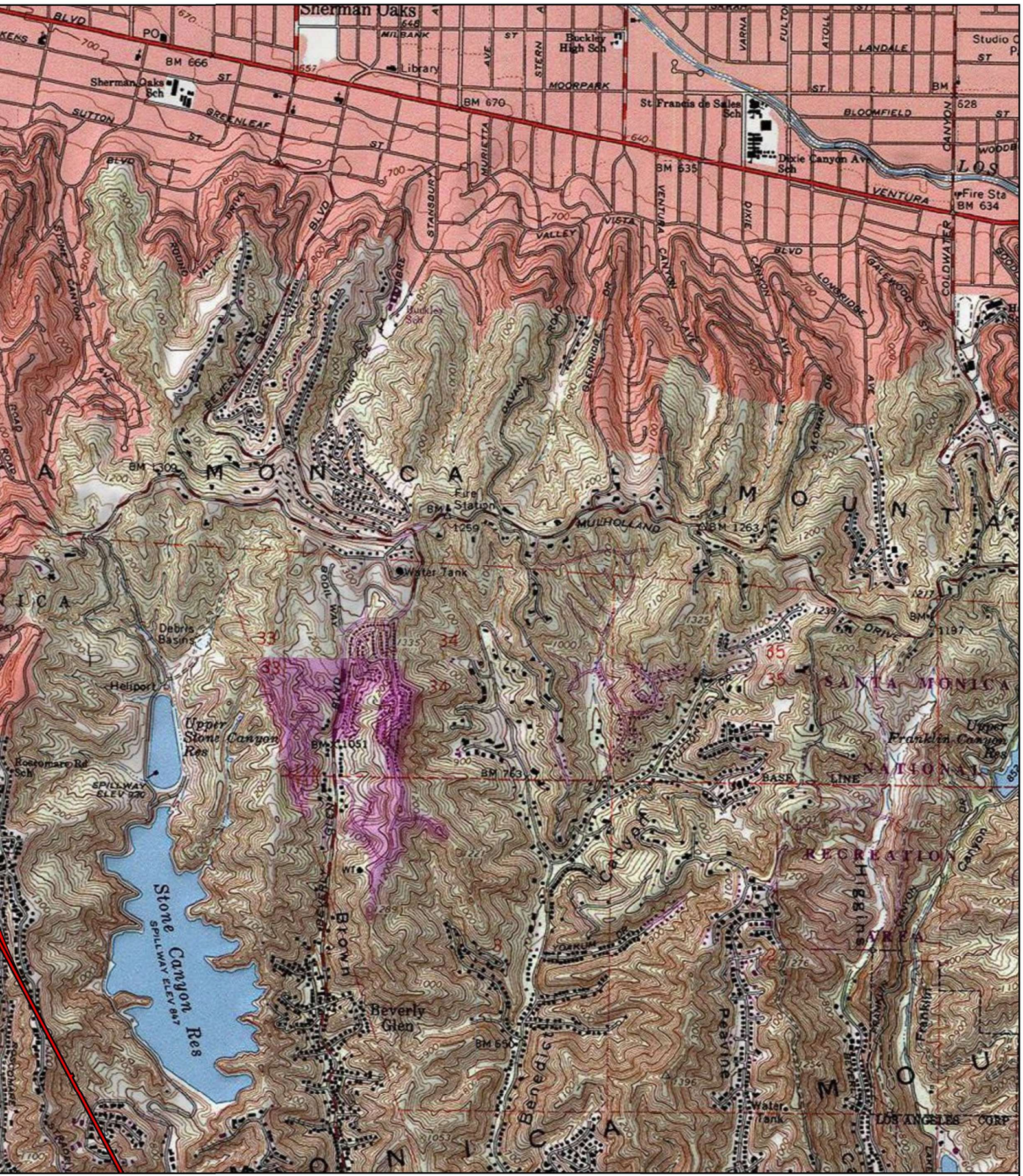

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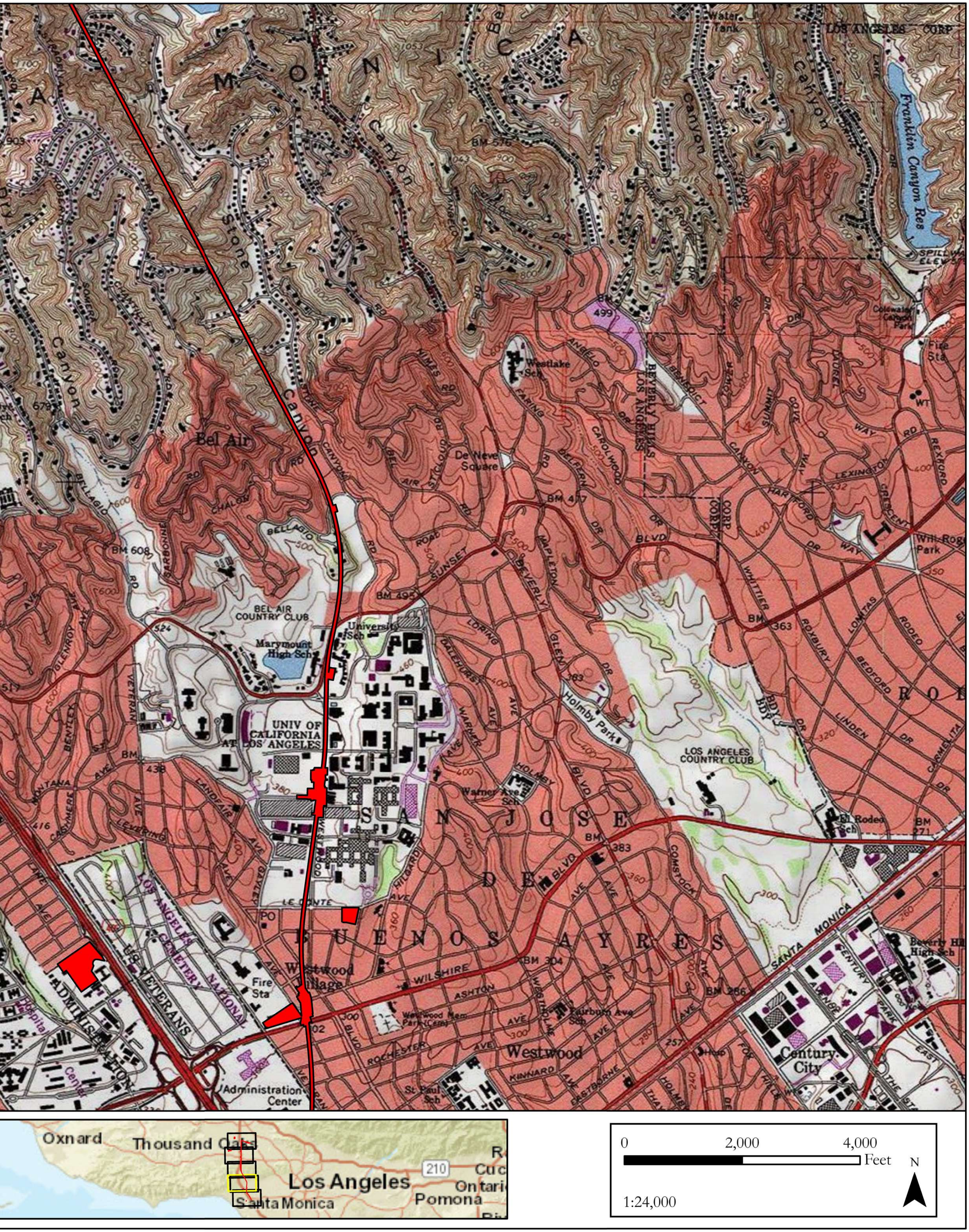

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University Sch
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SUNSET BLVD
Holmby Park
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SAN JOSE DE BUENOS AYRES
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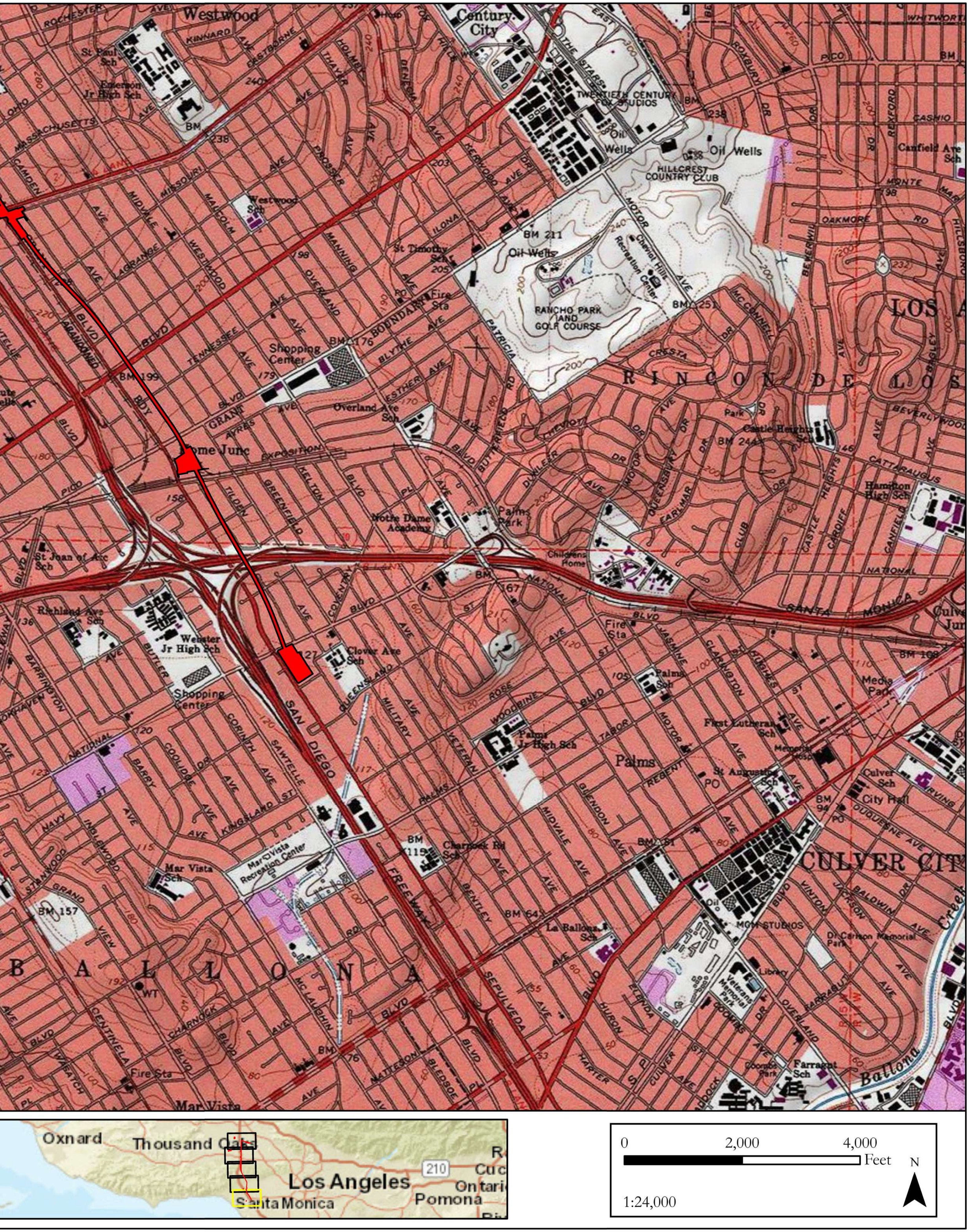
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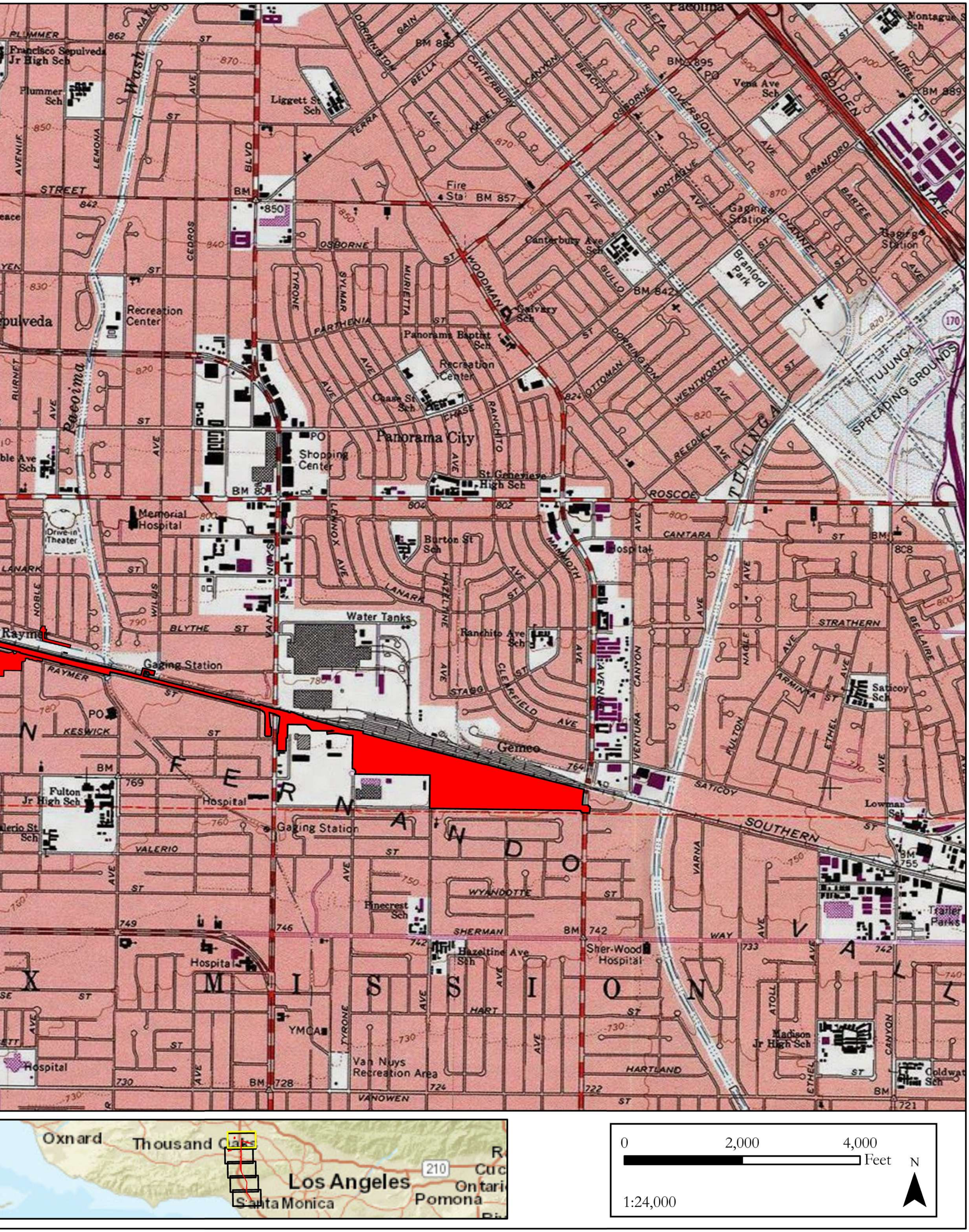

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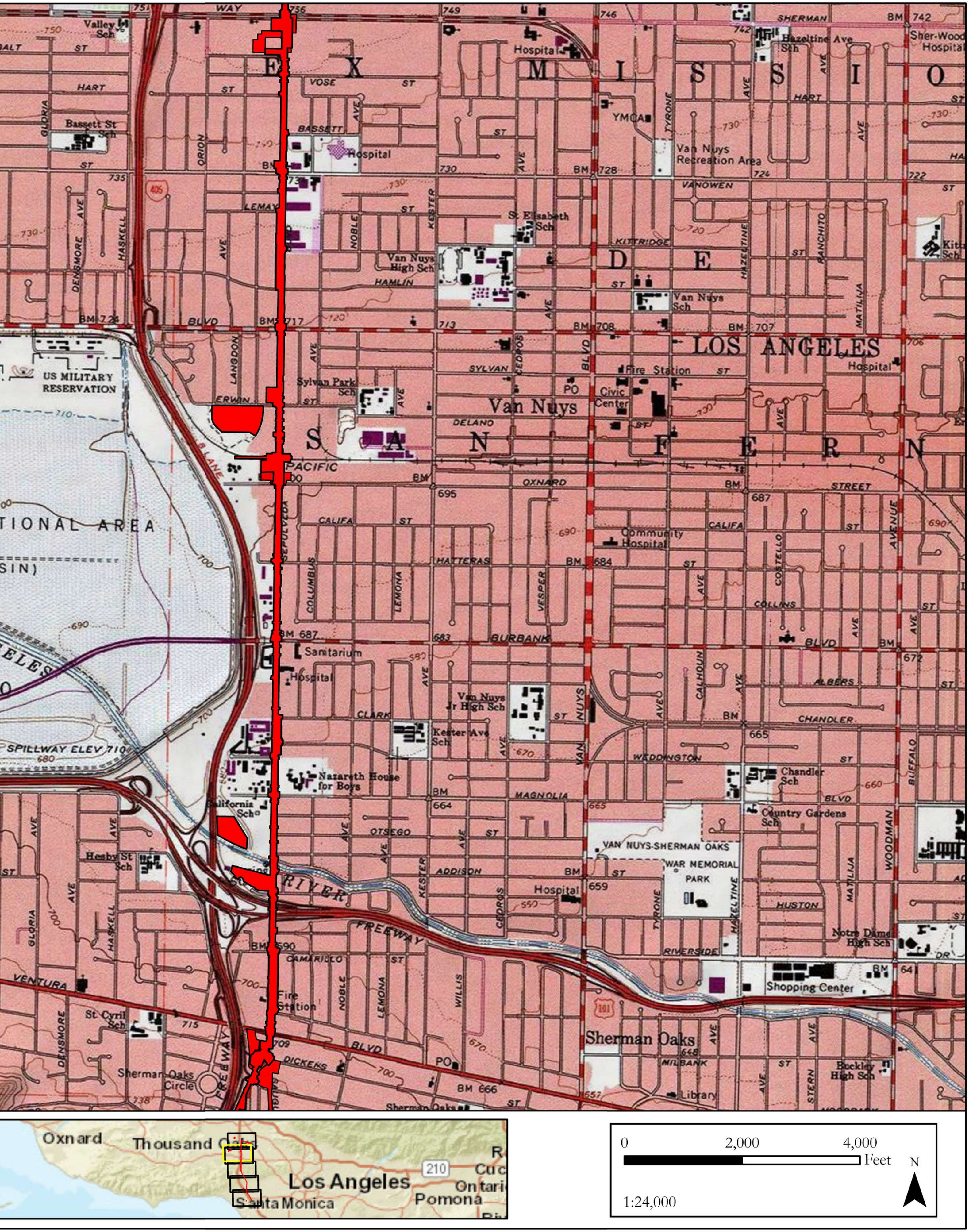
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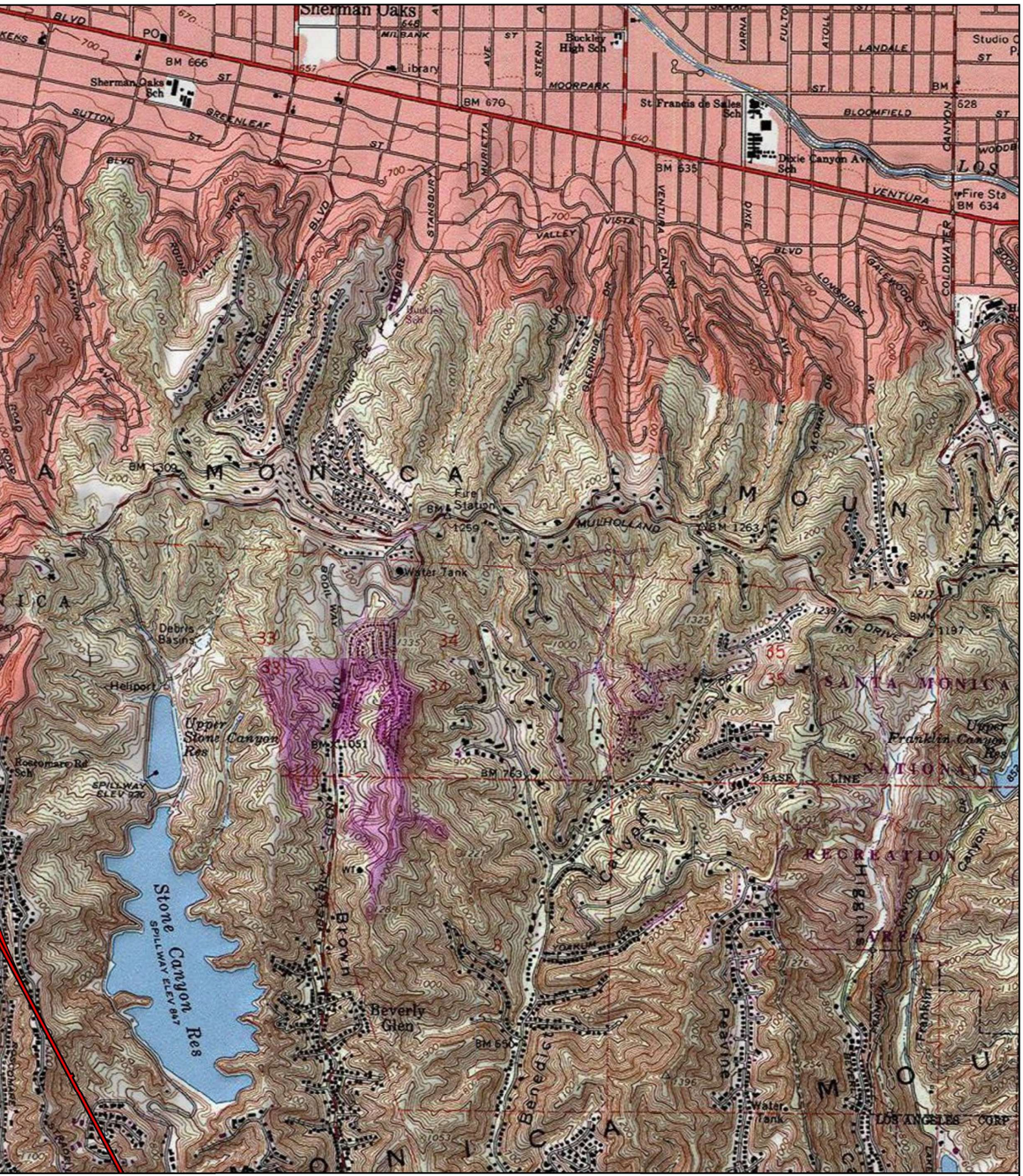

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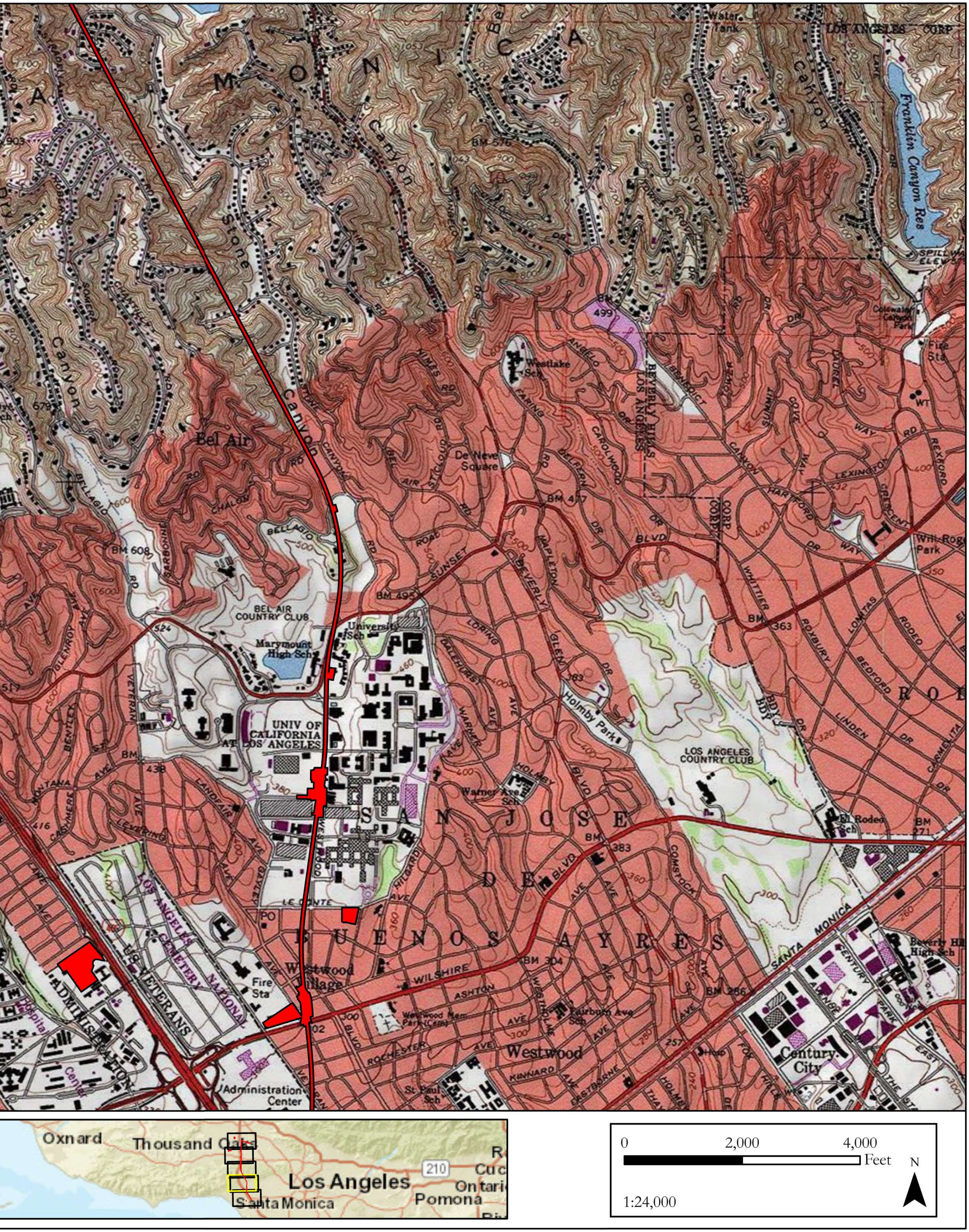

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Water Tank
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Bel Air
De Neve Square
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Marymount High Sch
University Sch
UNIV OF CALIFORNIA AT LOS ANGELES
SUNSET
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Holmby Park
LOS ANGELES COUNTRY CLUB
Warner Ave Sch
El Rodeo Sch
Will Rogers Park
Coldwater Canyon Park
Fire Sta
SAN JOSE
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BUENOS AYRES
Westwood Village
WILSHIRE
LOS ANGELES NATIONAL CEMETERY
U.S. VETERANS ADMINISTRATION
Administration Center
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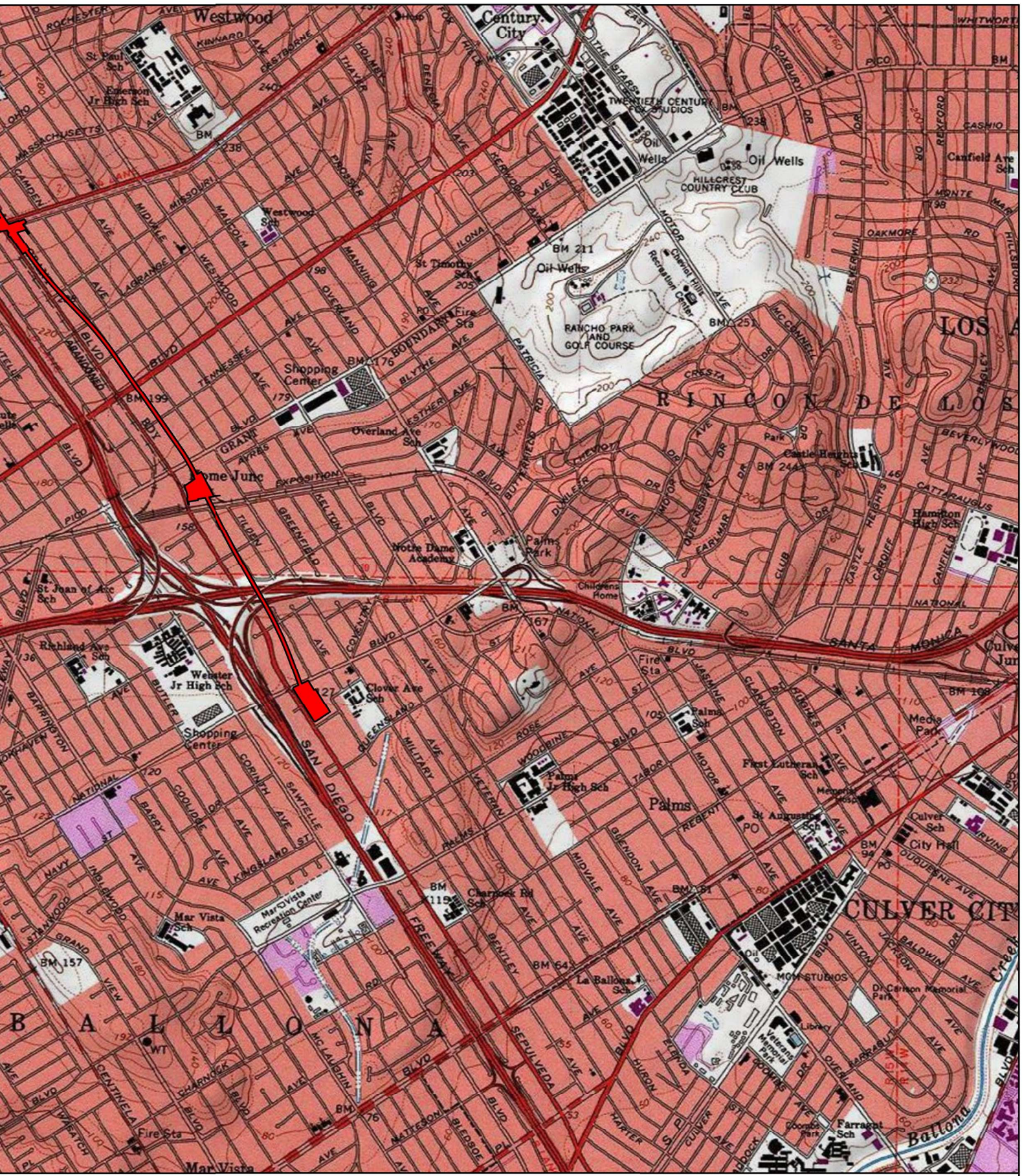
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HILLCREST COUNTRY CLUB
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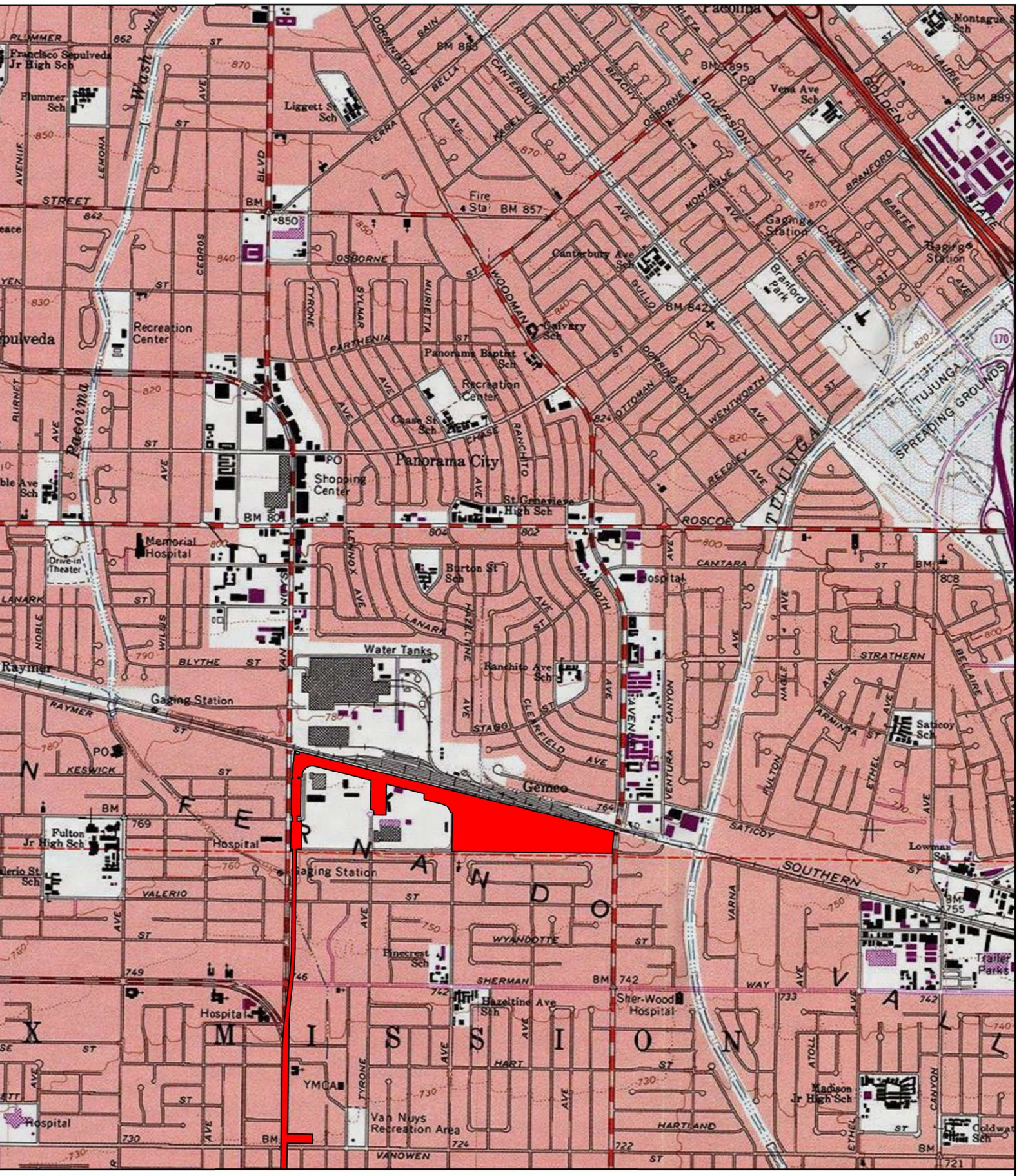

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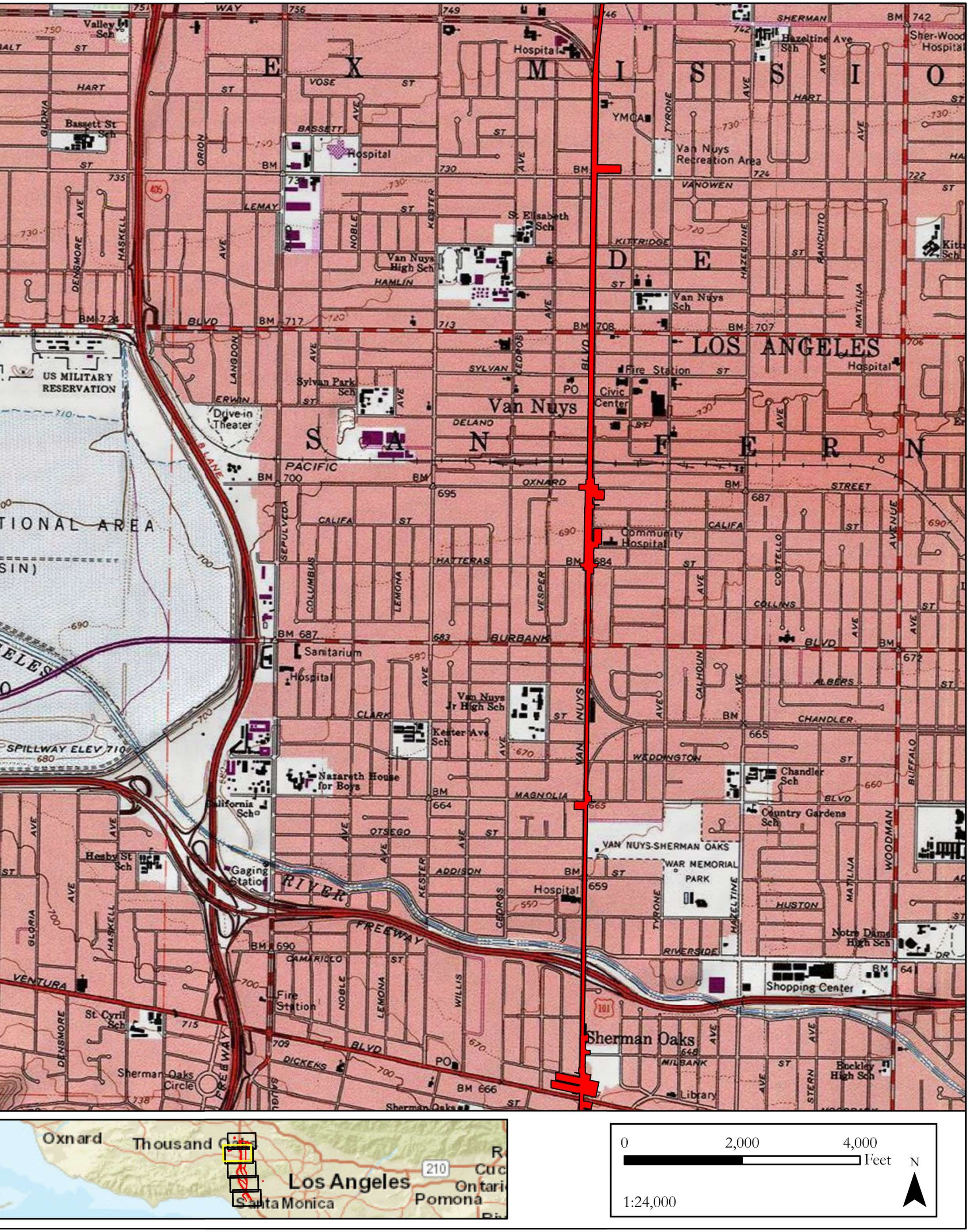

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Sylvan Park Sch
Fire Station
Civic Center
Van Nuys
Drive-in Theater
PACIFIC
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Sanitarium
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Nazareth House for Boys
California Sch
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WEDDINGTON
Chandler Sch
Country Gardens Sch
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HUSTON
RIVERSIDE
Notre Dame High Sch
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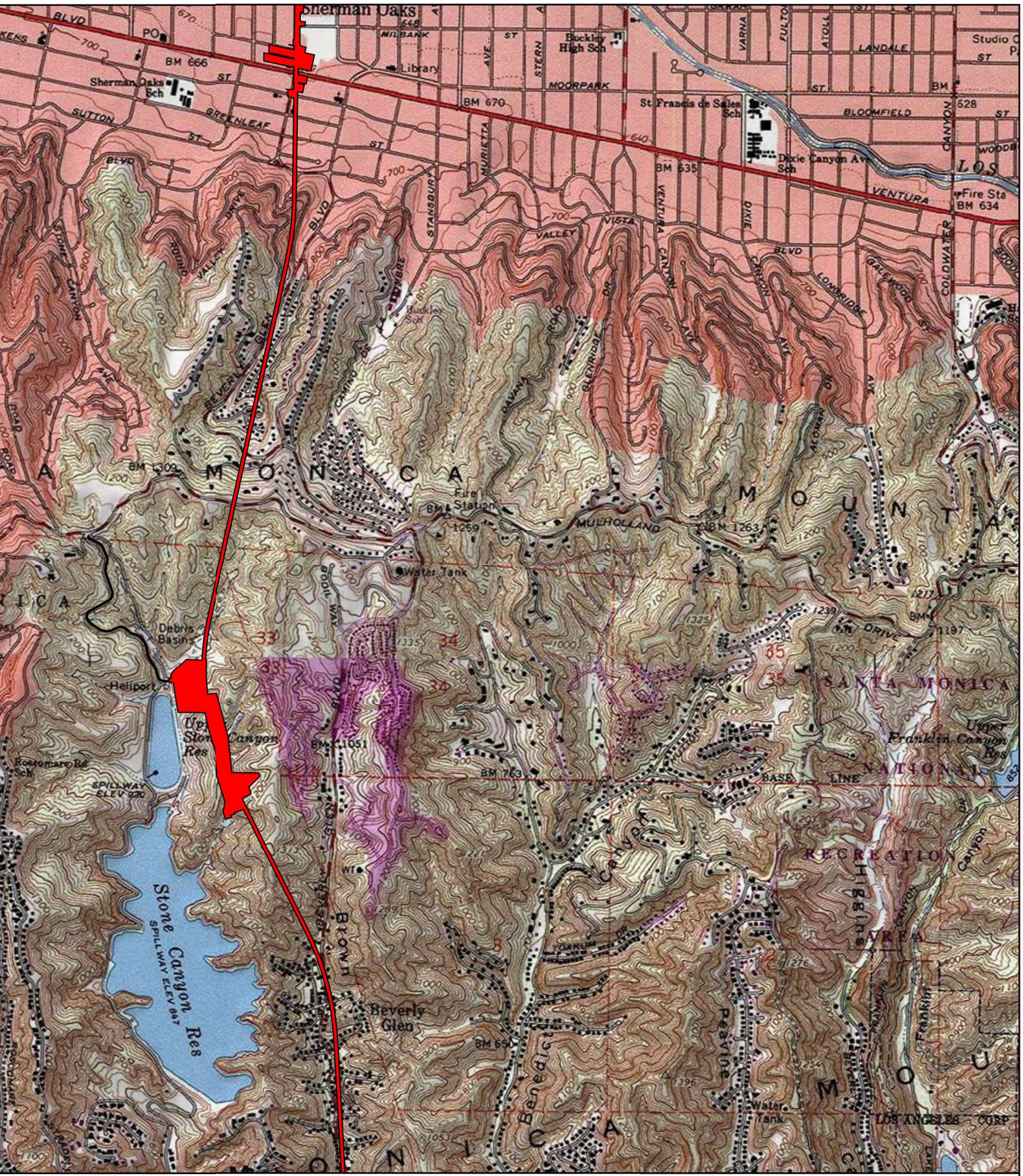

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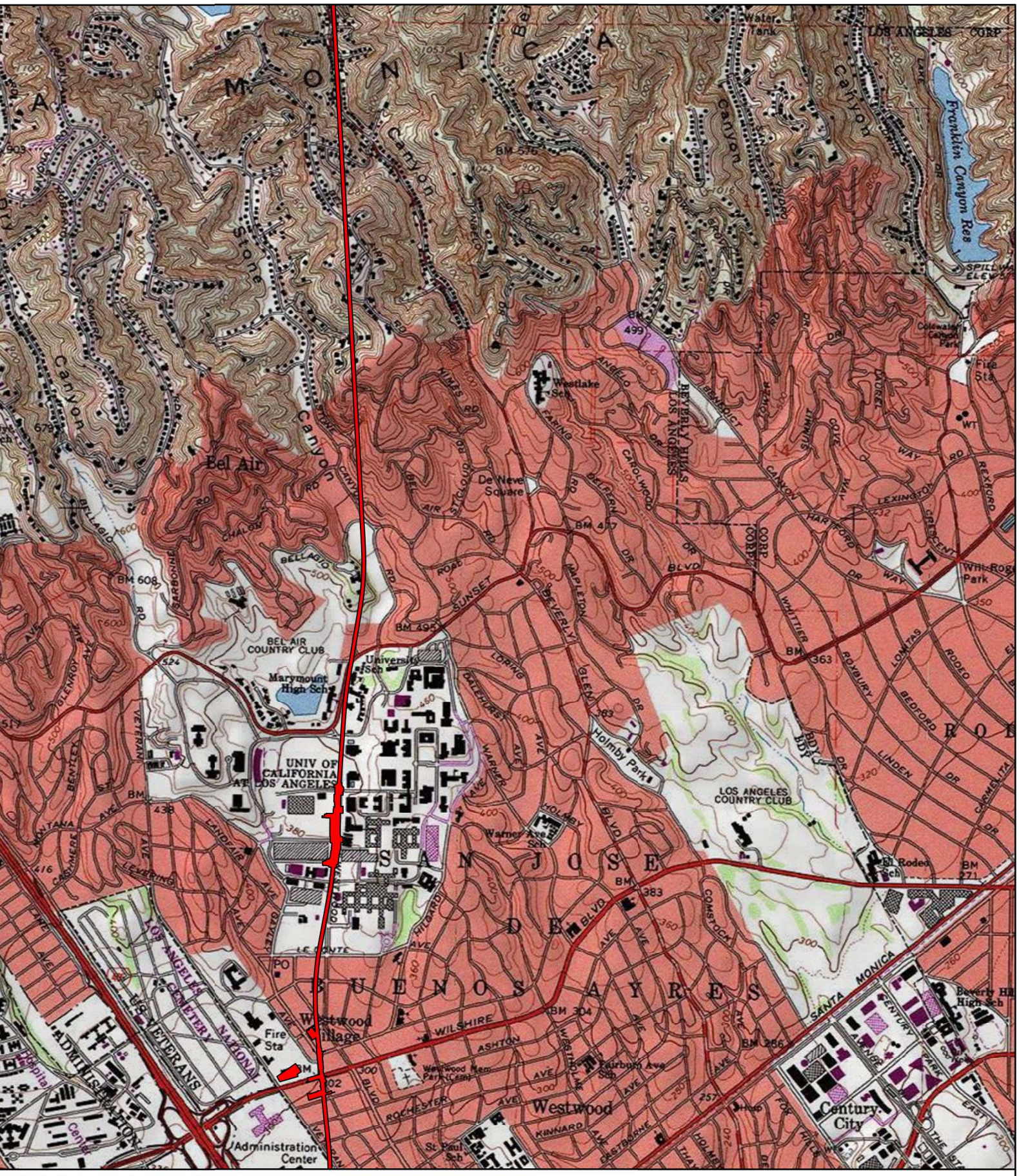

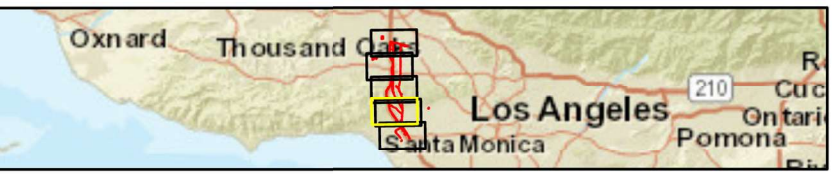

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St Augustine Sch
Culver Sch
City Hall
CULVER CITY
Media Park
Mar Vista Recreation Center
Mar Vista Sch
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MGM STUDIOS
Dr Carson Memorial Park
Veterans Memorial Park
Library
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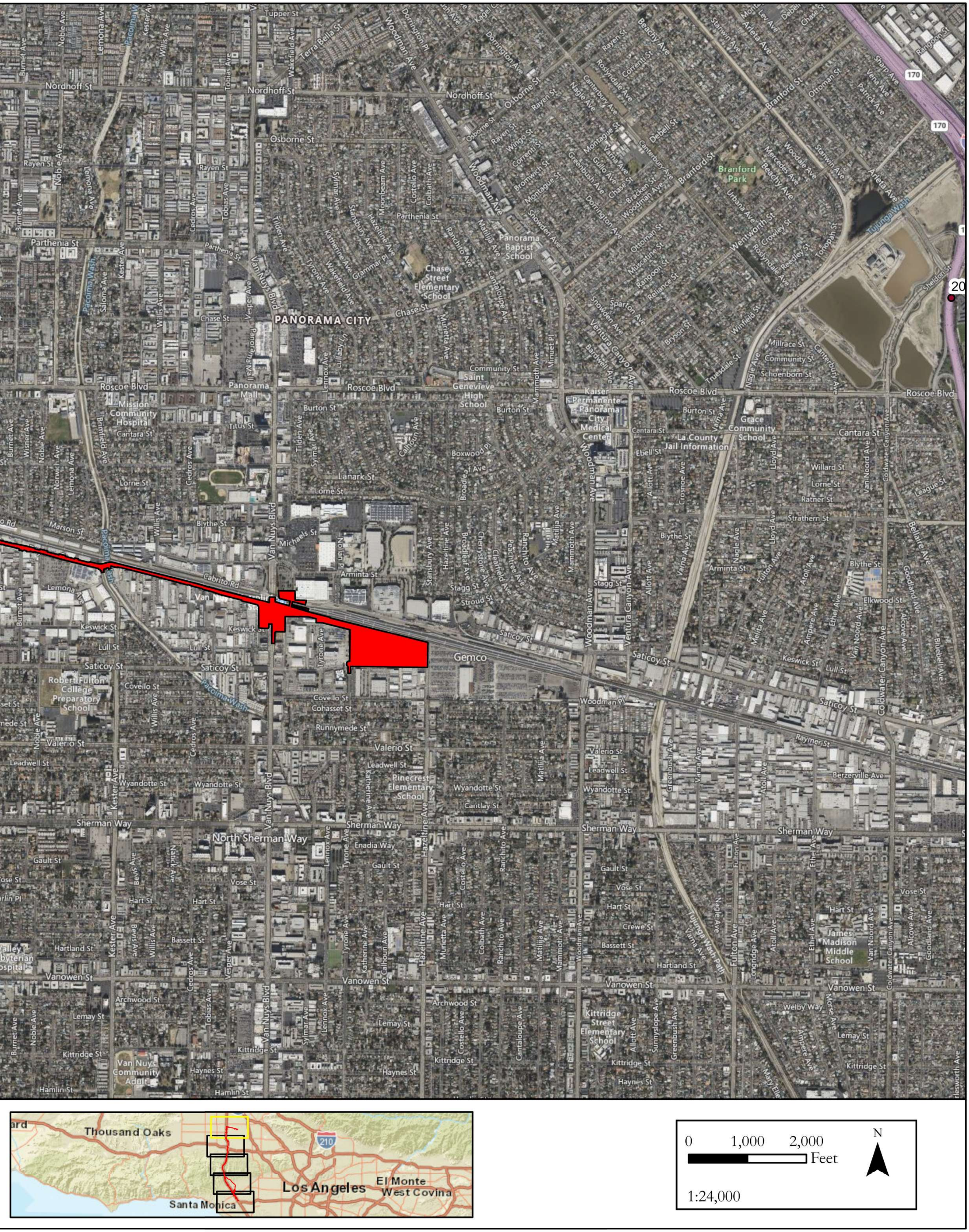
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Pacoima Wash
Gemco
Kaiser Permanente Panorama City Medical Center
Mission Community Hospital
Saint Genevieve High School
Chase Street Elementary School
Panorama Baptist School
Grace Community School
Robert Fulton College Preparatory School
Pinecrest Elementary School
Kittridge Street Elementary School
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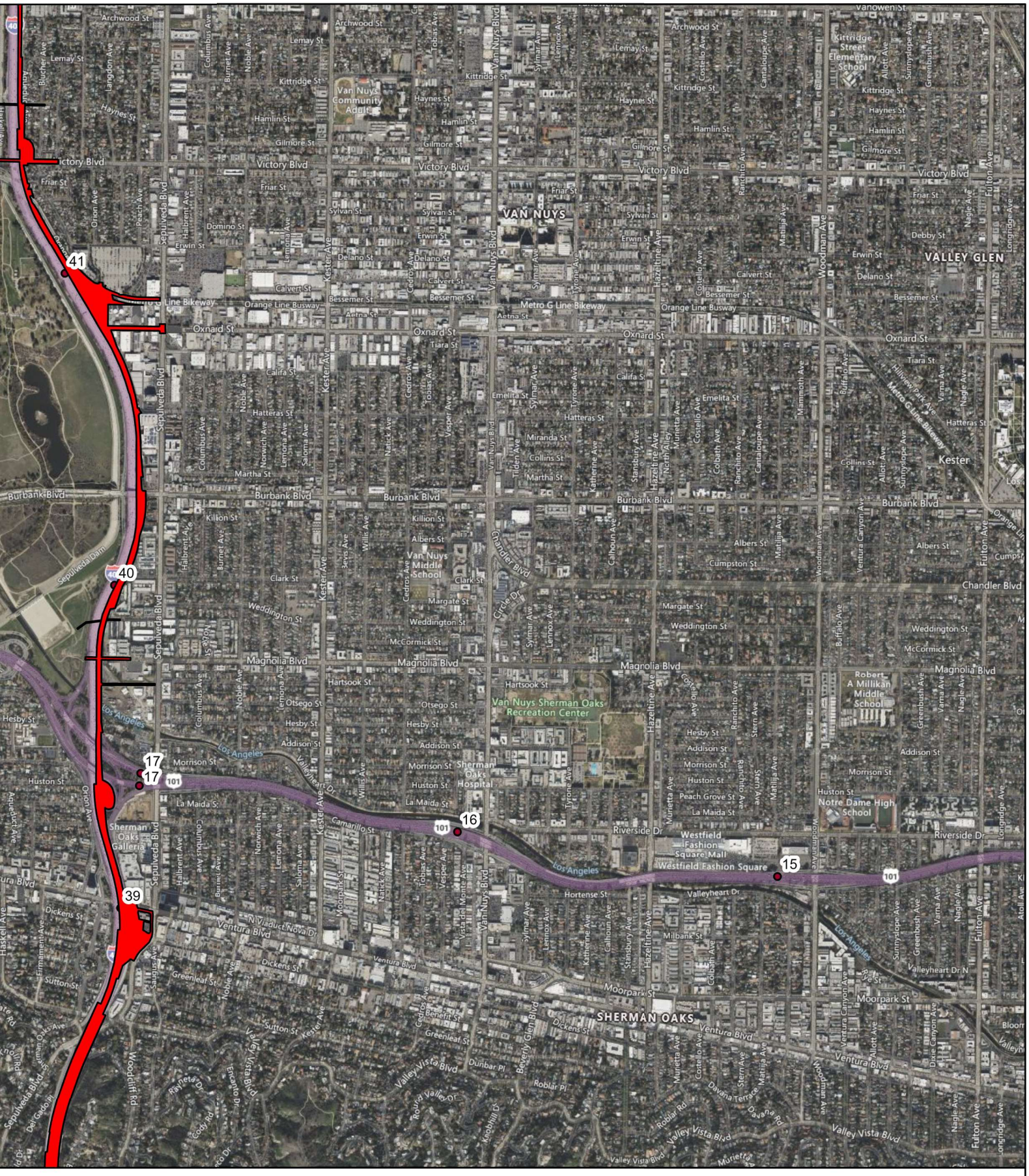
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Van Nuys Sherman Oaks Recreation Center
Sherman Oaks Hospital
Robert A Millikan Middle School
Notre Dame High School
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Sherman Oaks Galleria
Kittridge Street Elementary School
Van Nuys Community Adult
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Metro G Line Bikeway
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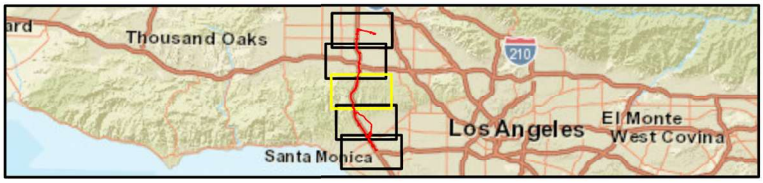

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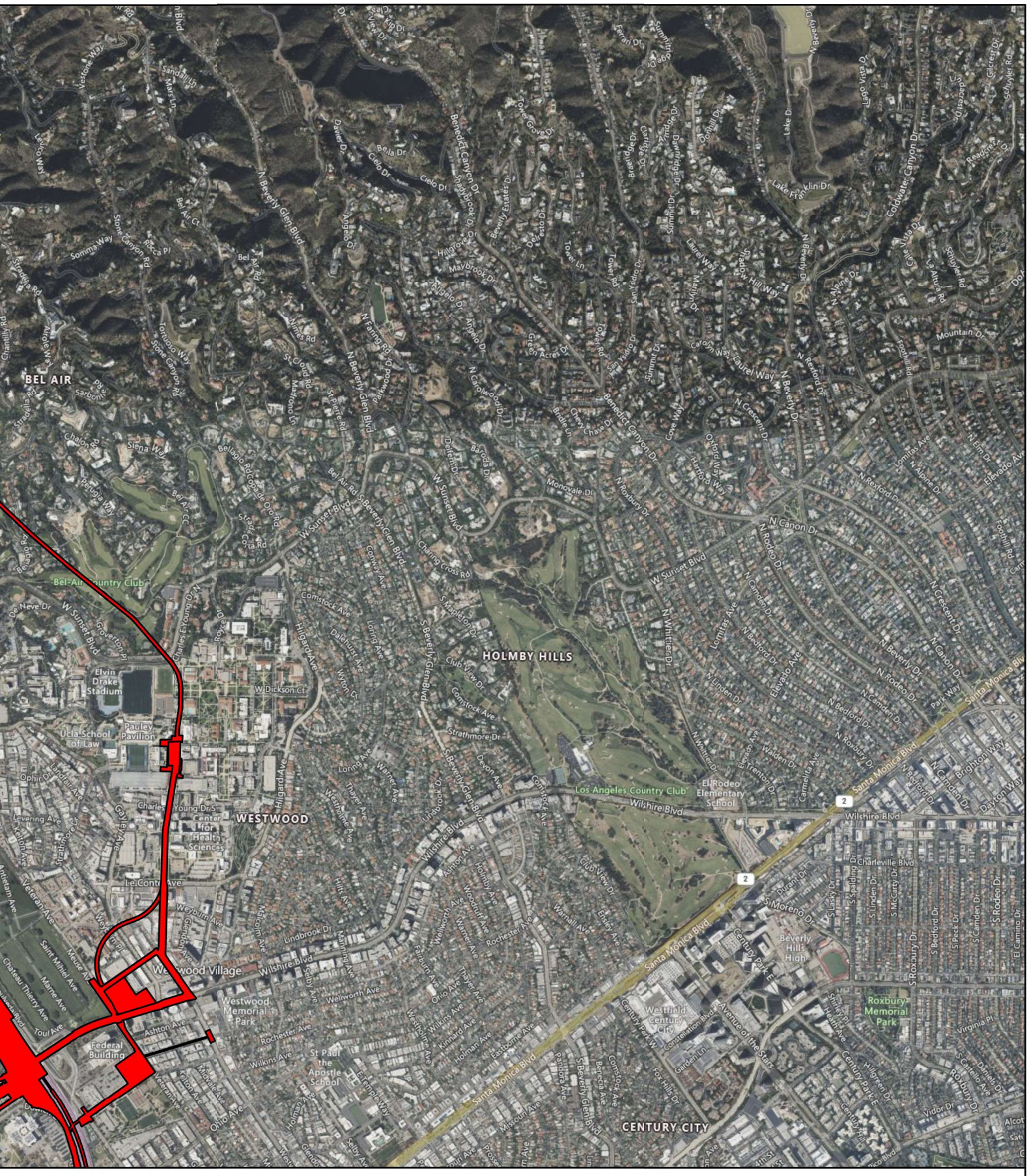
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Center for Health Sciences
Westwood Village
Westwood Memorial Park
Federal Building
St Paul the Apostle School
El Rodeo Elementary School
Beverly Hills High
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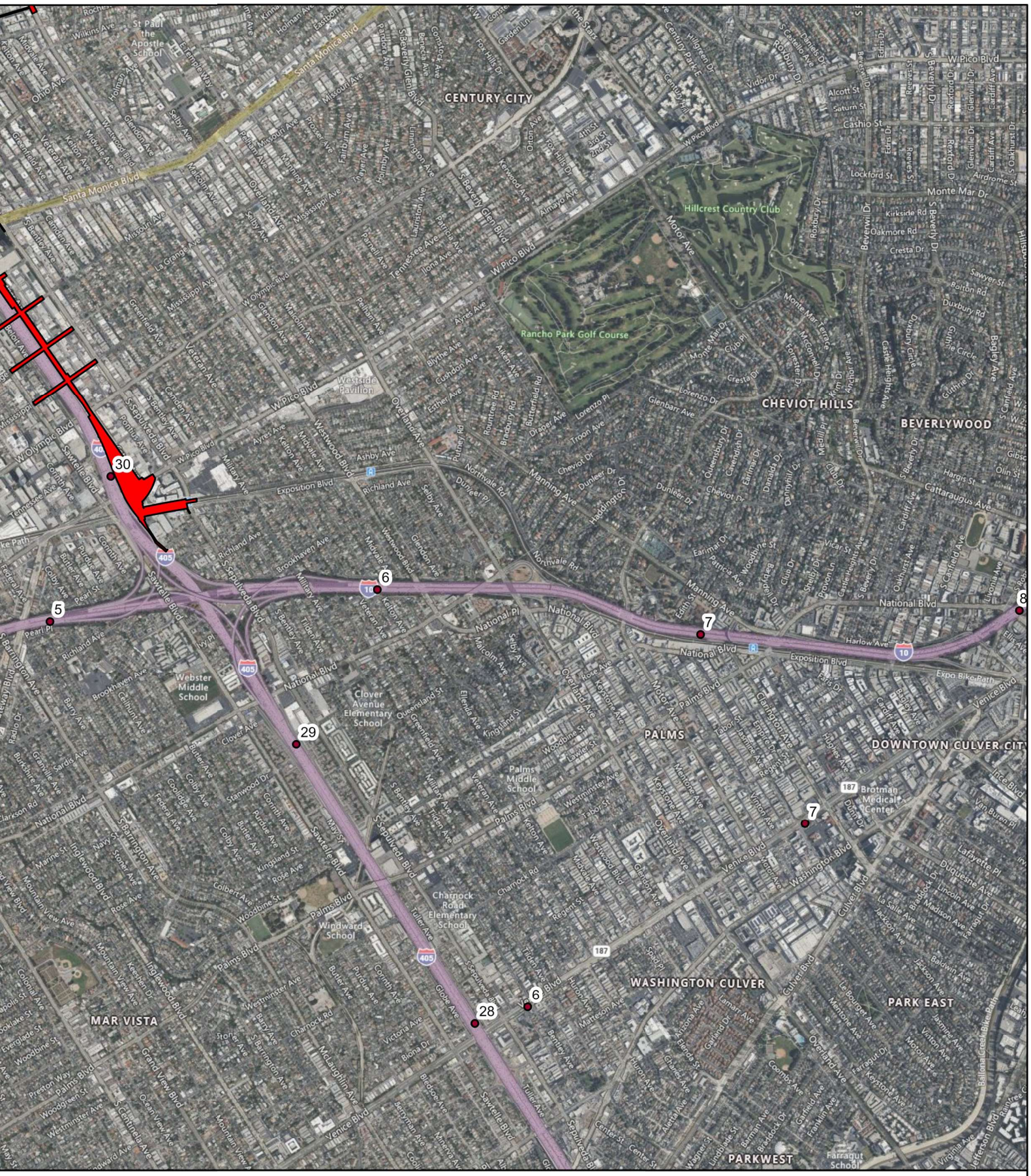

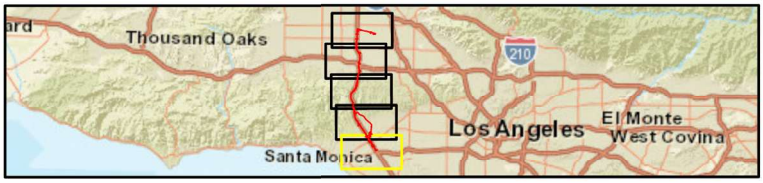

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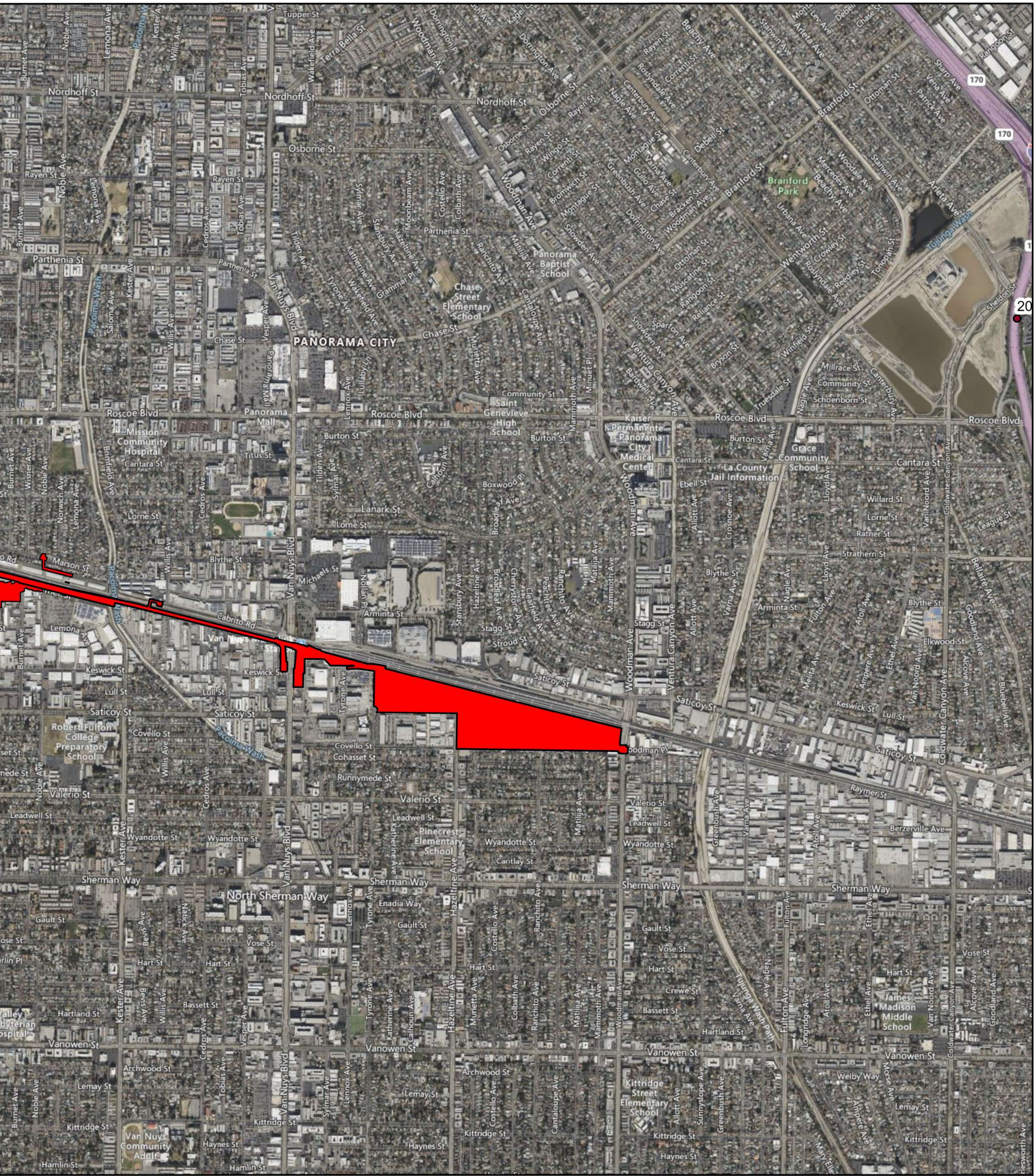

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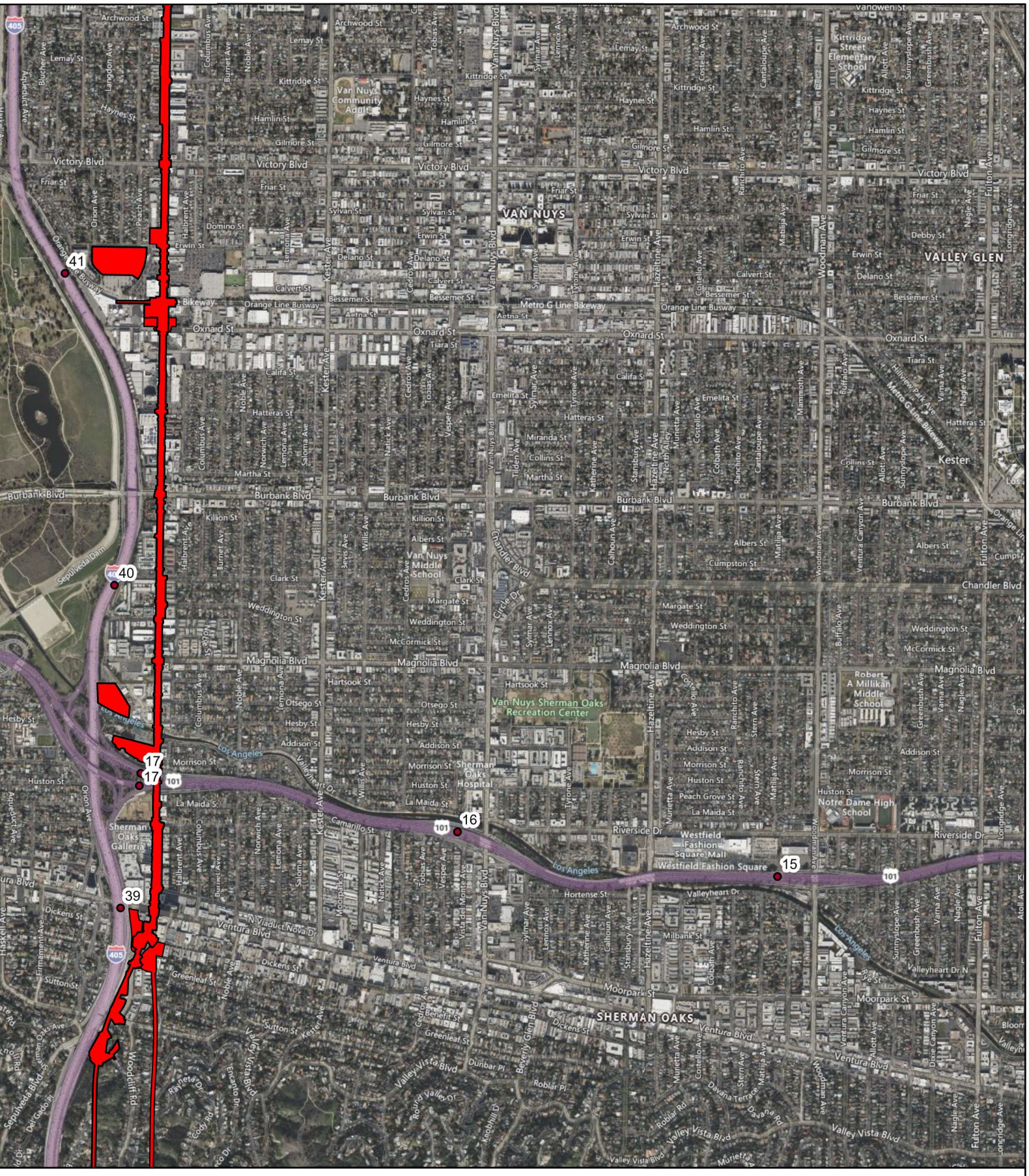

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Valley Vista Blvd
Ventura Blvd
Woodbridge St
Dickens St
Galewood St
Halkirk St
Coldwater Canyon Ave
Longridge Ave
Fulton Ave
Nagle Ave
Woodman Ave
Hollyline Ave
Beverly Glen Terrace
Coy Dr
W Park Rd
Beresford Rd
Deep Canyon Dr
Whitwall Dr
Hutton Dr
Yoakum Dr
Portola Dr
Easton Dr
Oak Park Rd
Ellison Dr
Liebe Dr
Baywood Ct
Briarwood Dr
Nicada Dr
Tiffany Circle
Bottlebrush Dr
Power Line Fire Rd
Selkirk Ln
Seabury Ln
Scenario Ln
Oletha Ln
Canyon Rd
Lindamere Dr
Bel Air Rd
Stradella Rd
Vettore Way
Sandhill Ln
Mar Ln
Reevesbury Dr
Westwanda Dr
Summitridge Dr
Beverly Park Terrace
Beverly Park Circle
Franklin Canyon Dr
Discovery Trl
Lake Dr
Chaswick Dr
San Ysidro Dr
Ferrari Dr
Ranch Trl
Rand Dr
Contour Dr
Inwood Dr
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Dixie Canyon Pl
Cheltenham Dr
Ventura Canyon Ave
Mary Ellen Ave
Ethel Ave
Van Nuys Ave
Woodman Ave
Nurietta Ave
Stern Ave
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Davana Rd
Wrightwood Dr
Durham Rd
Clarendon Rd
Oakmont Dr
Oakfield Dr
Knobhill Dr
Deervale Dr
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Jadestone Dr
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Java Dr
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Laurelwood Dr
Halenda Dr
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Vienza Way
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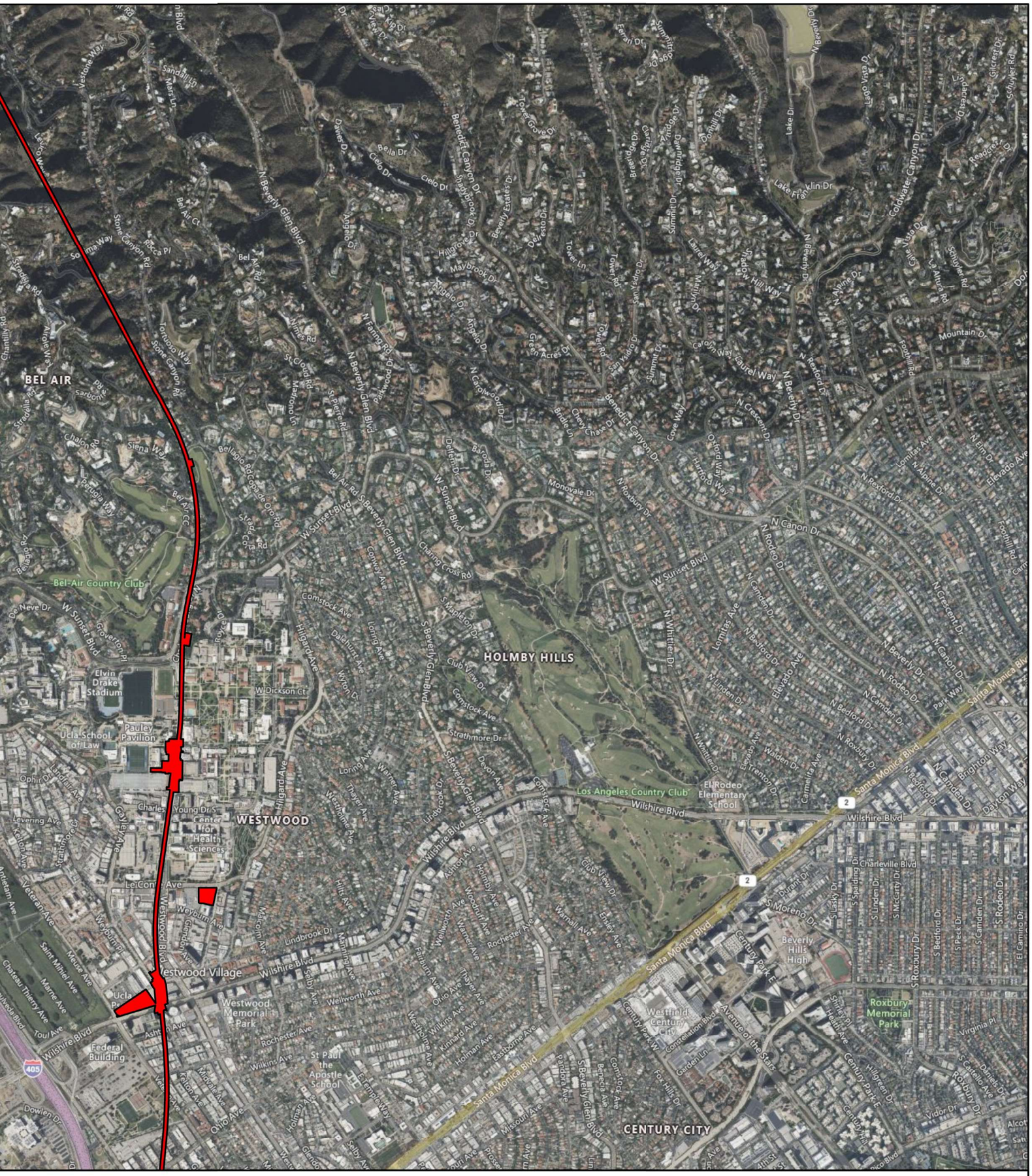
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WESTWOOD
CENTURY CITY
Bel-Air Country Club
Los Angeles Country Club
Elvin Drake Stadium
Pauley Pavilion
Ucla School of Law
Charles Young Dr S Center for Health Sciences
Westwood Village
Westwood Memorial Park
Federal Building
St Paul the Apostle School
El Rodeo Elementary School
Beverly Hills High
Roxbury Memorial Park
Westfield Century City
Wilshire Blvd
Santa Monica Blvd
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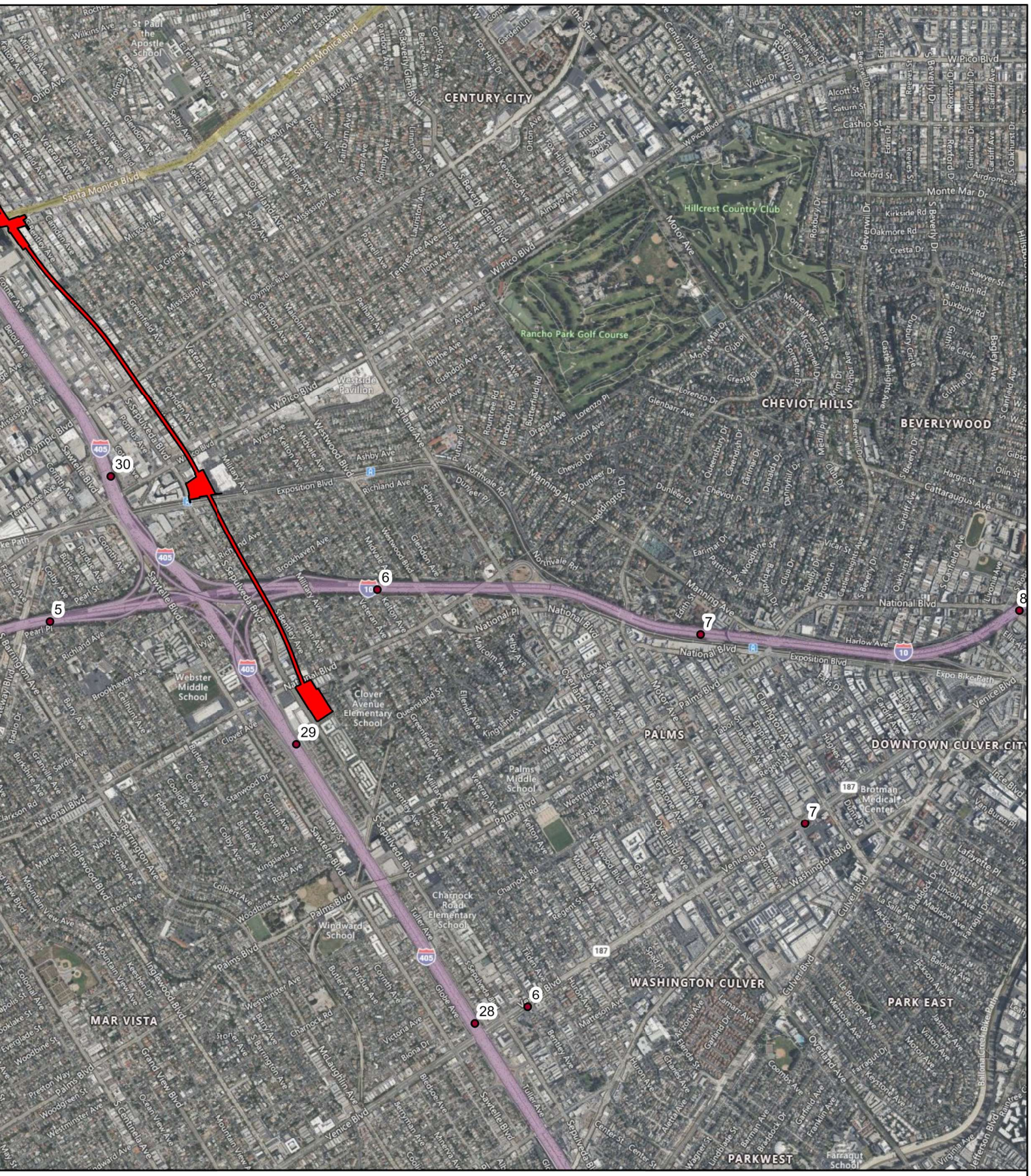

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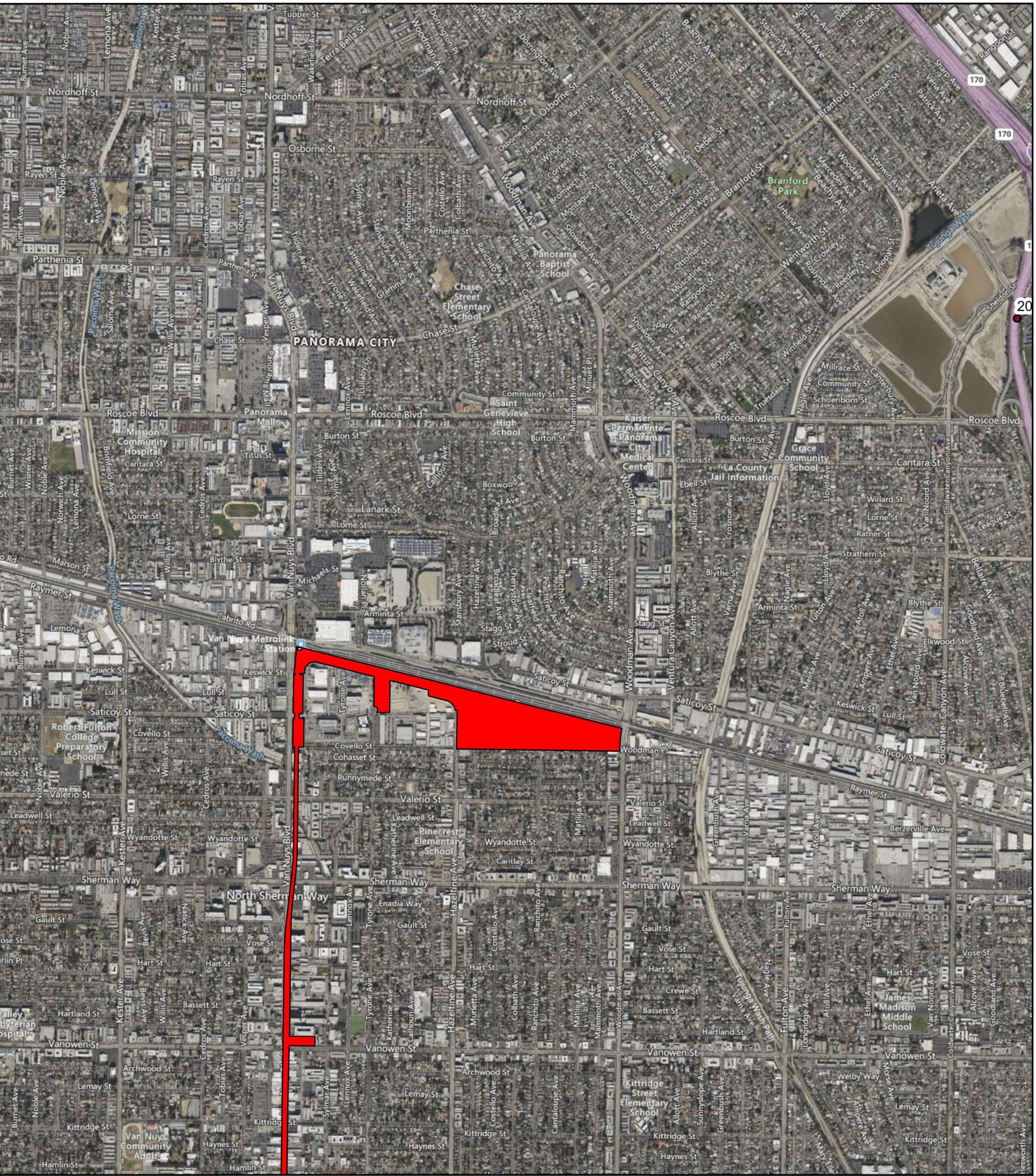

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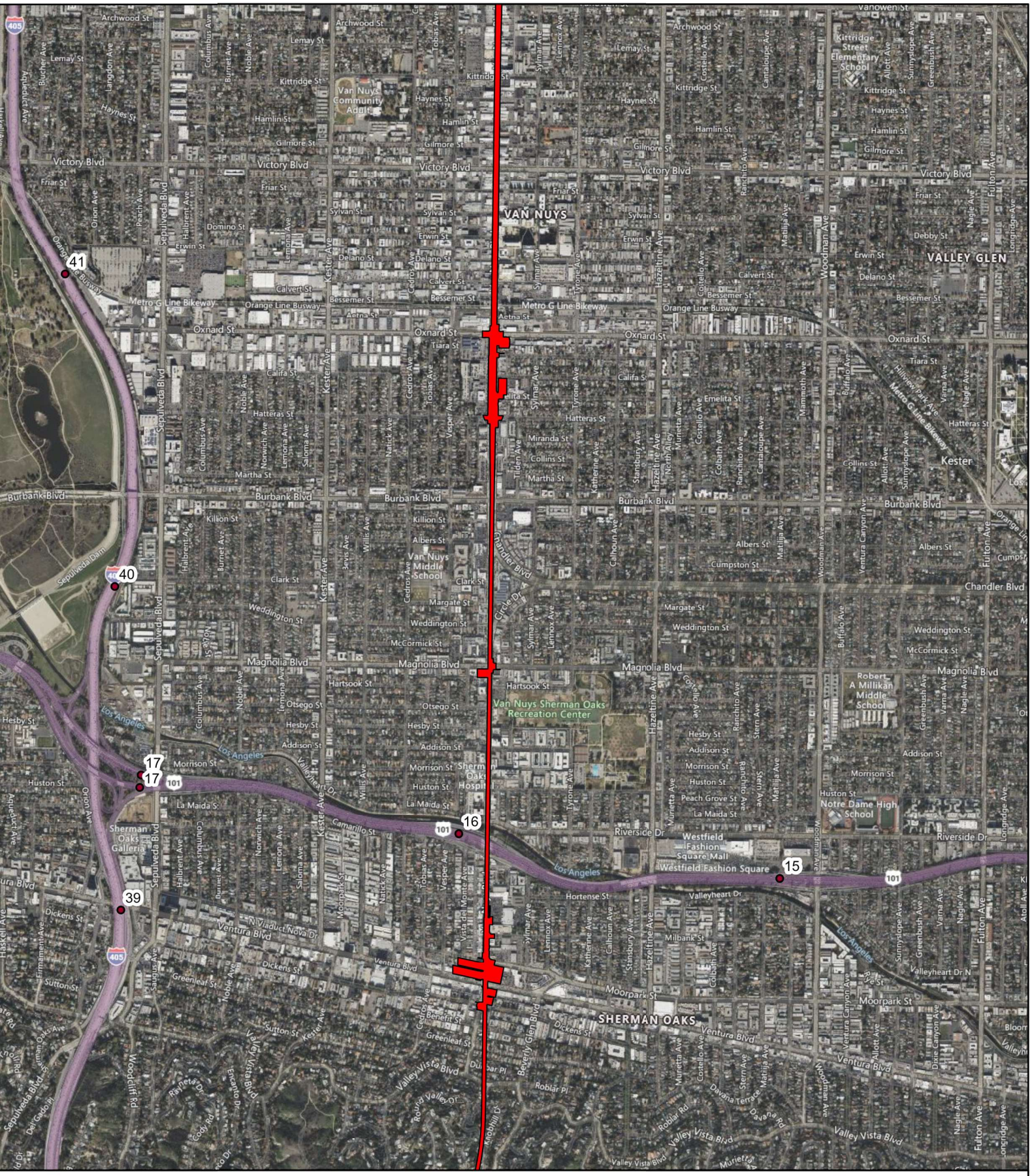

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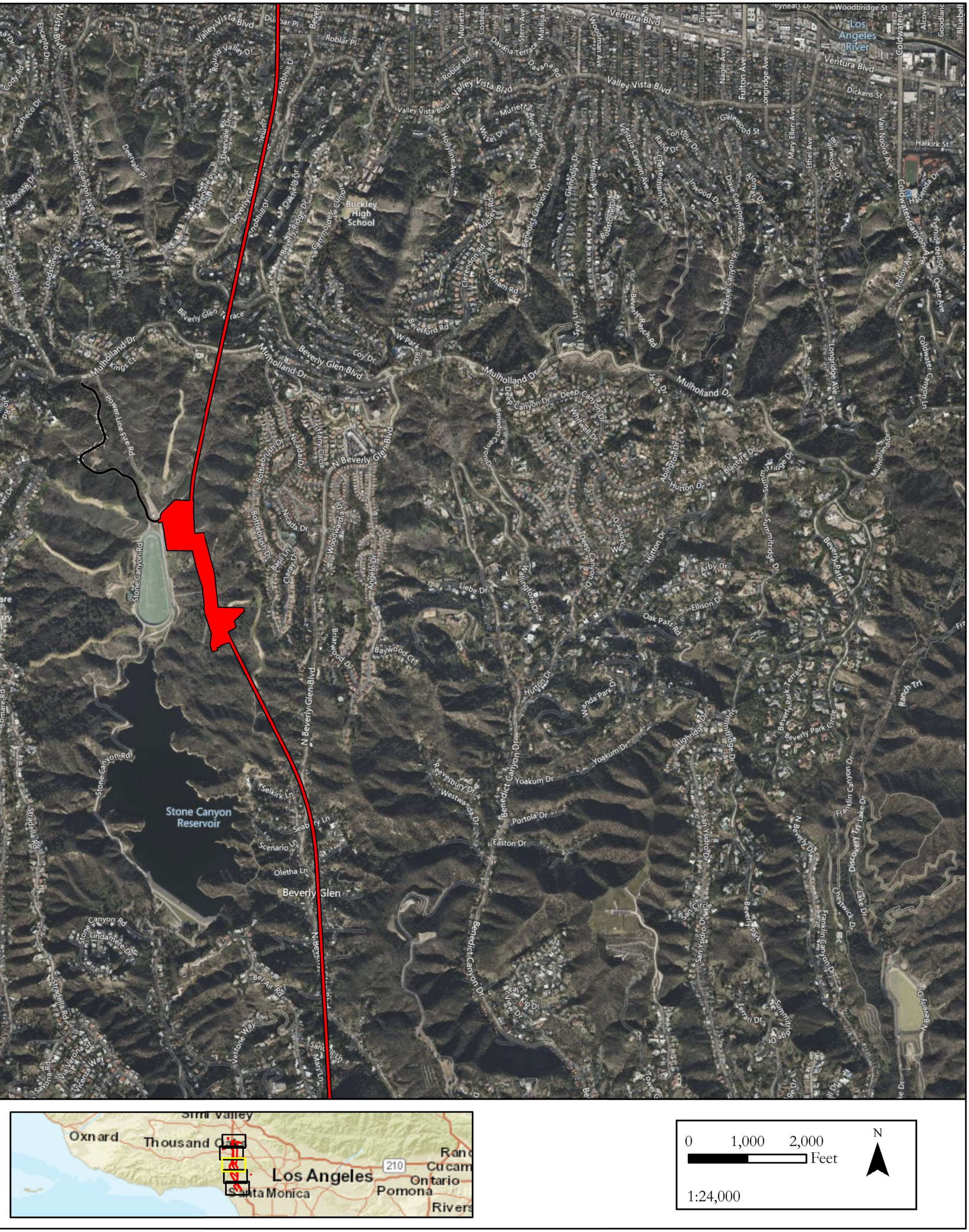

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Franklin Canyon Dr
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Easton Dr
Oak Pass Rd
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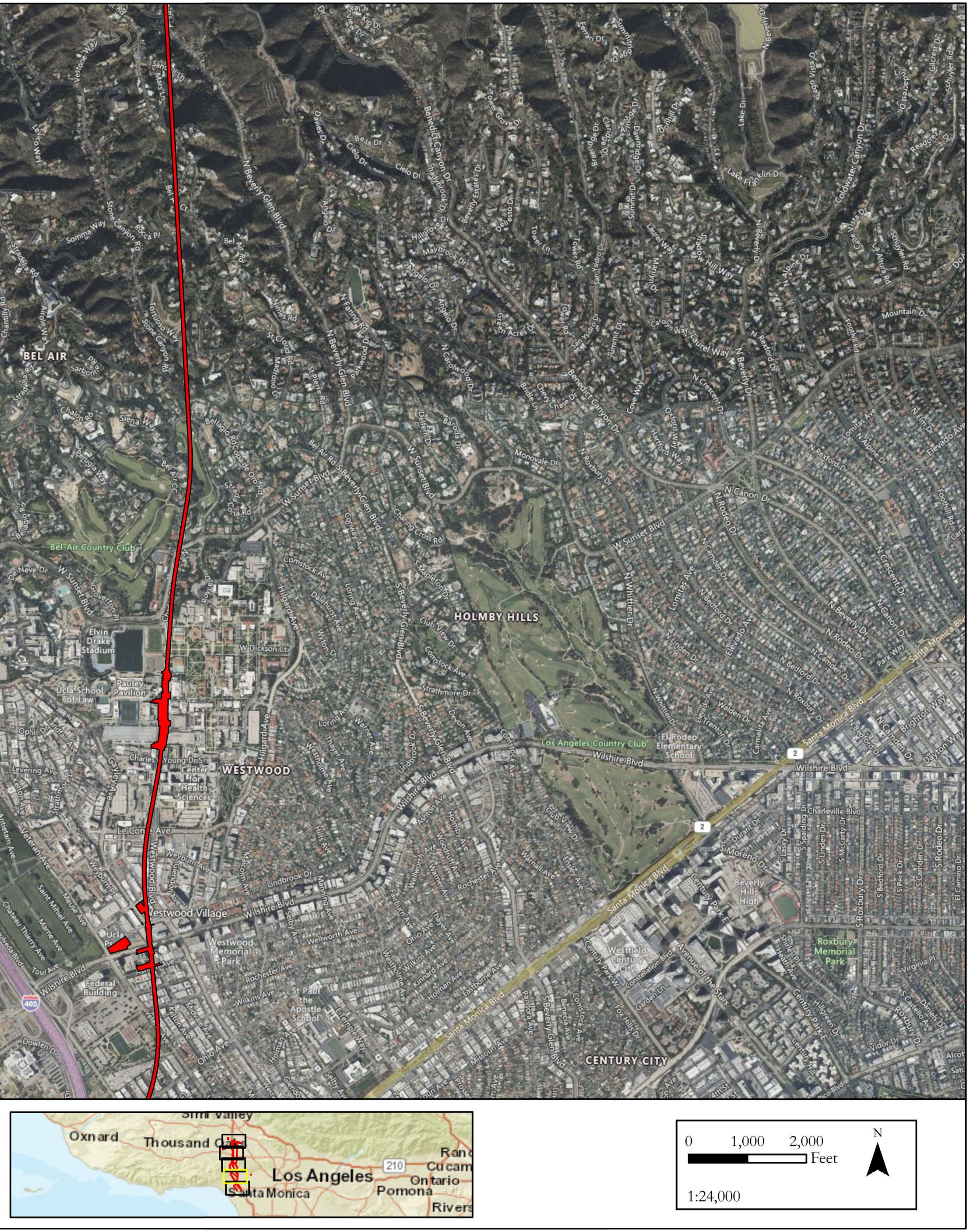
BEL AIR
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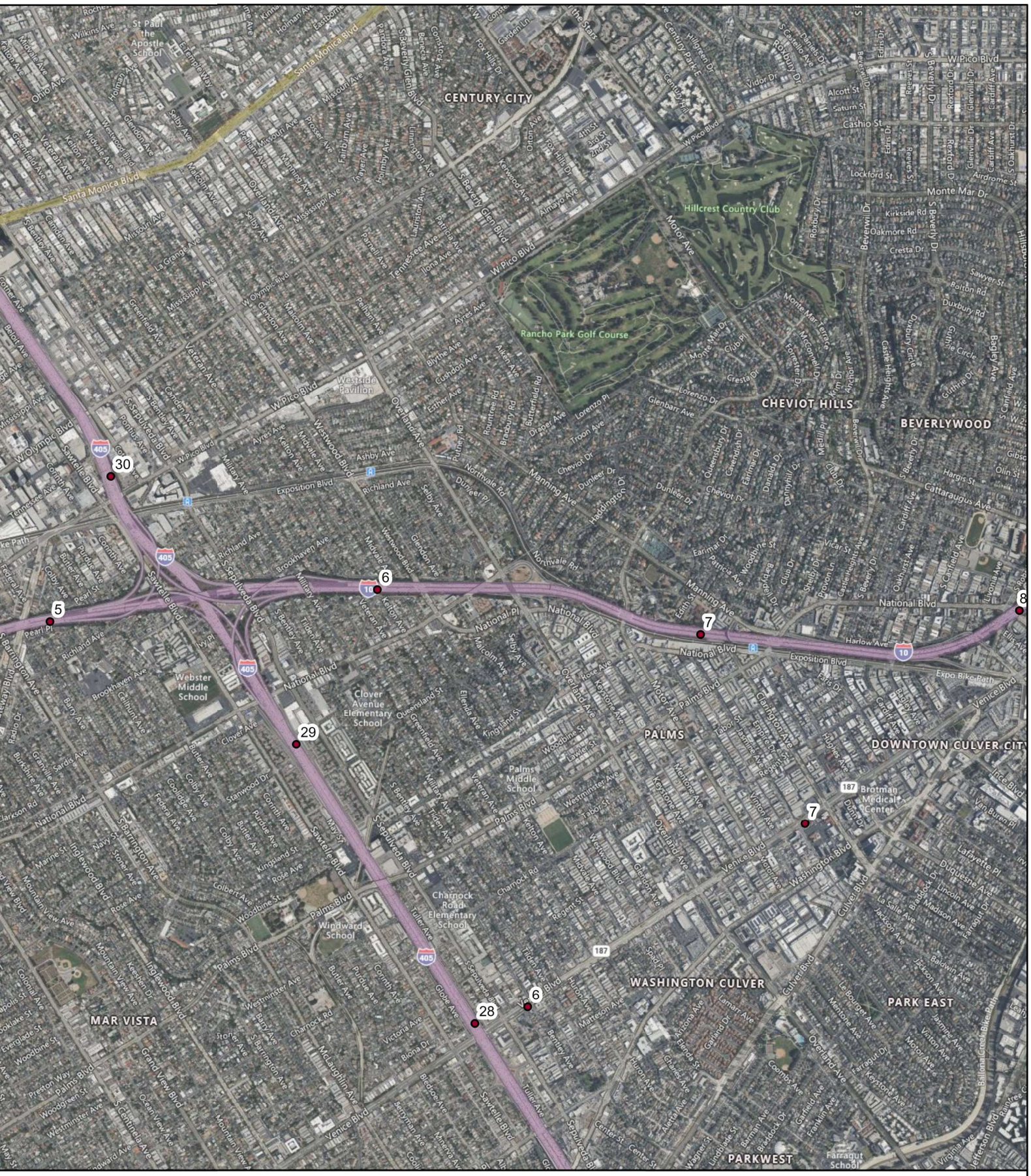

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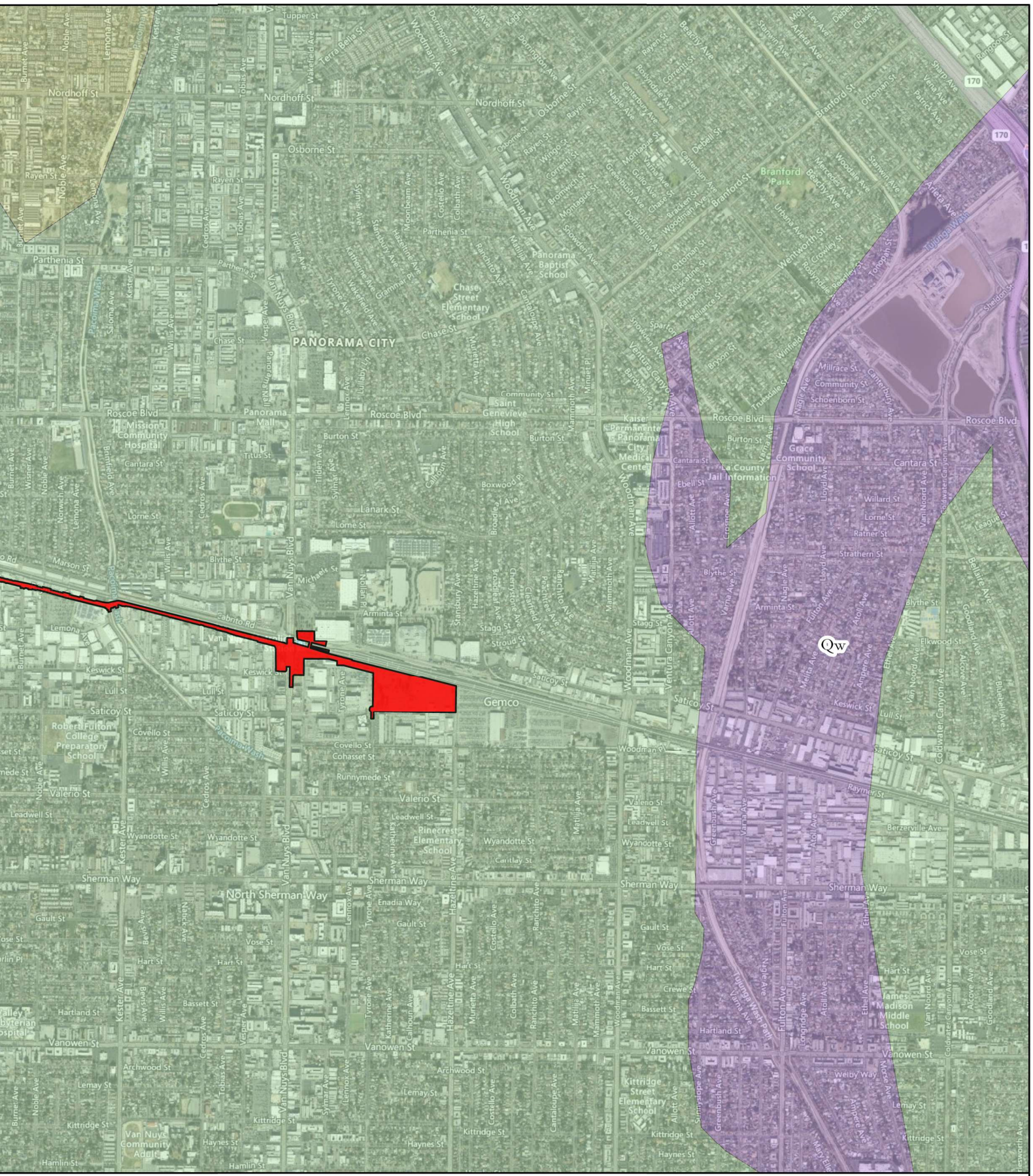

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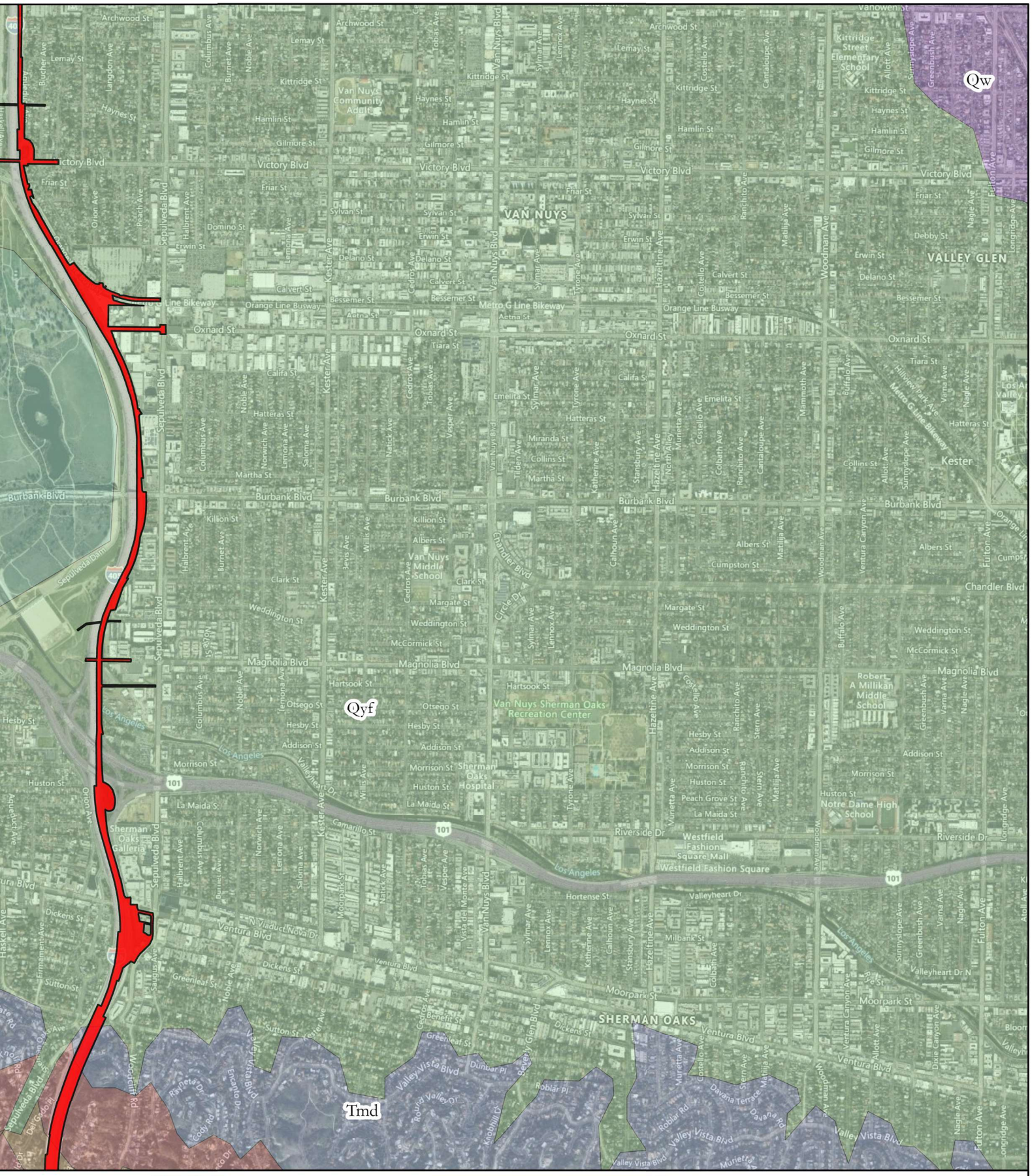

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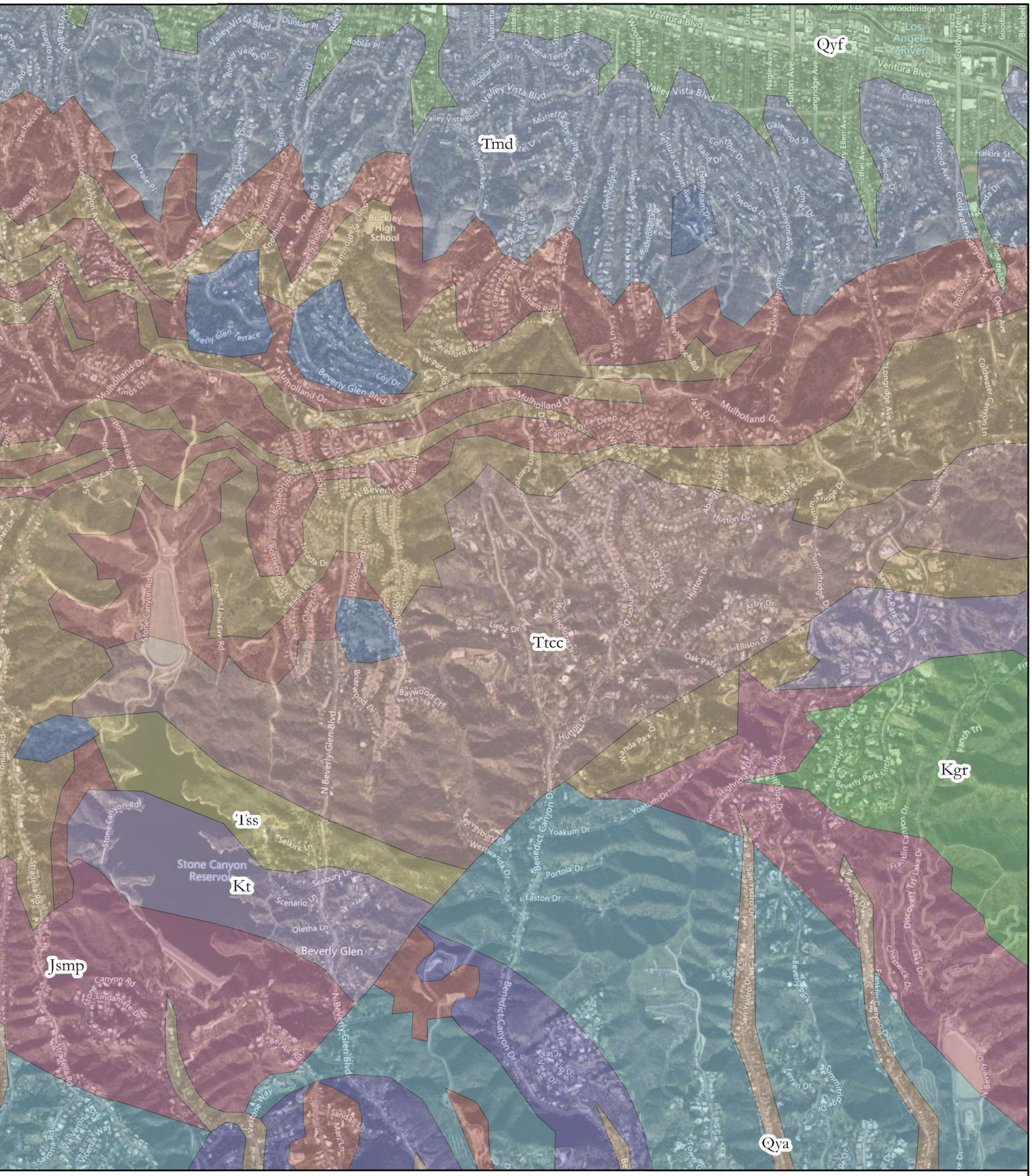

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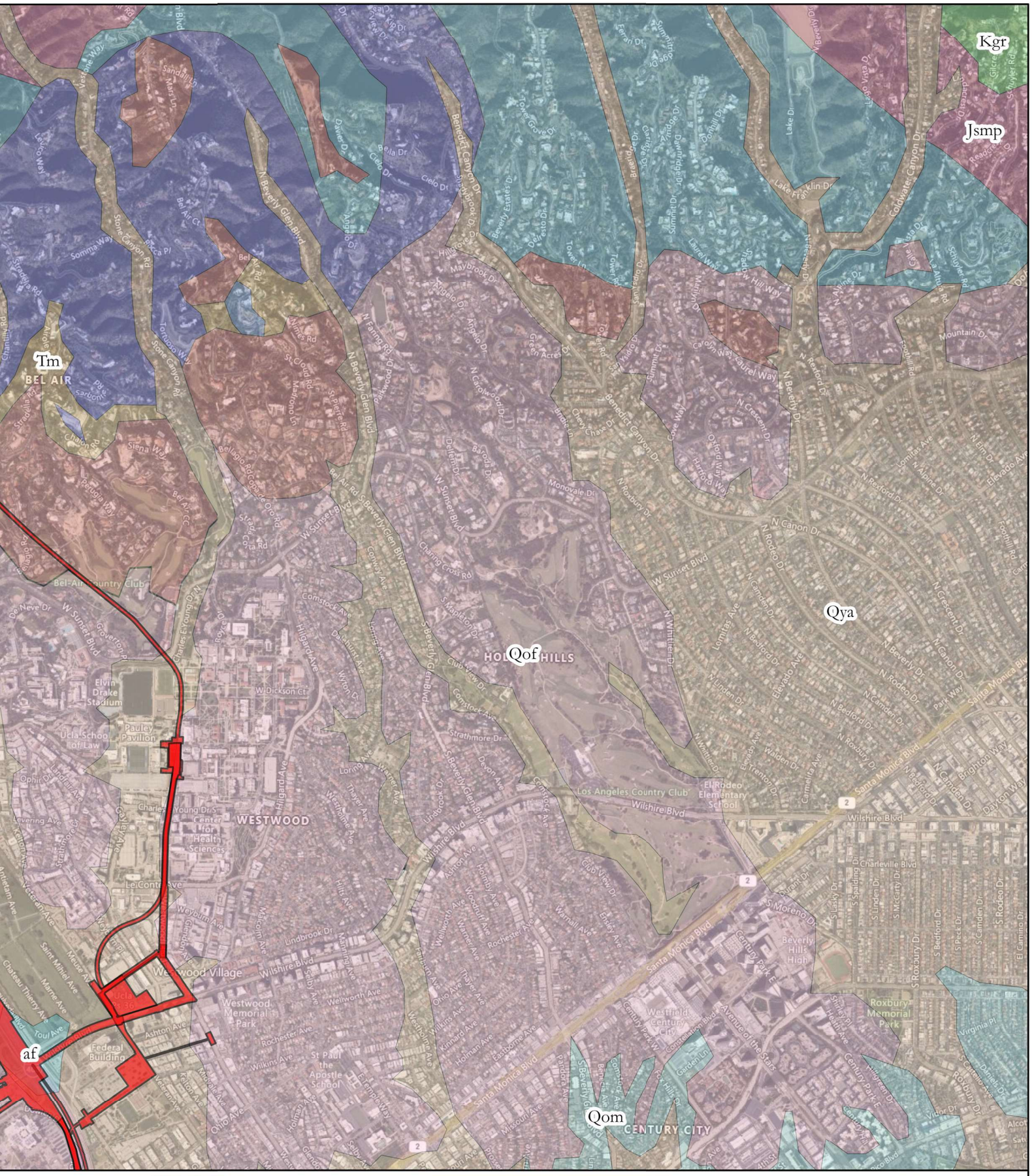

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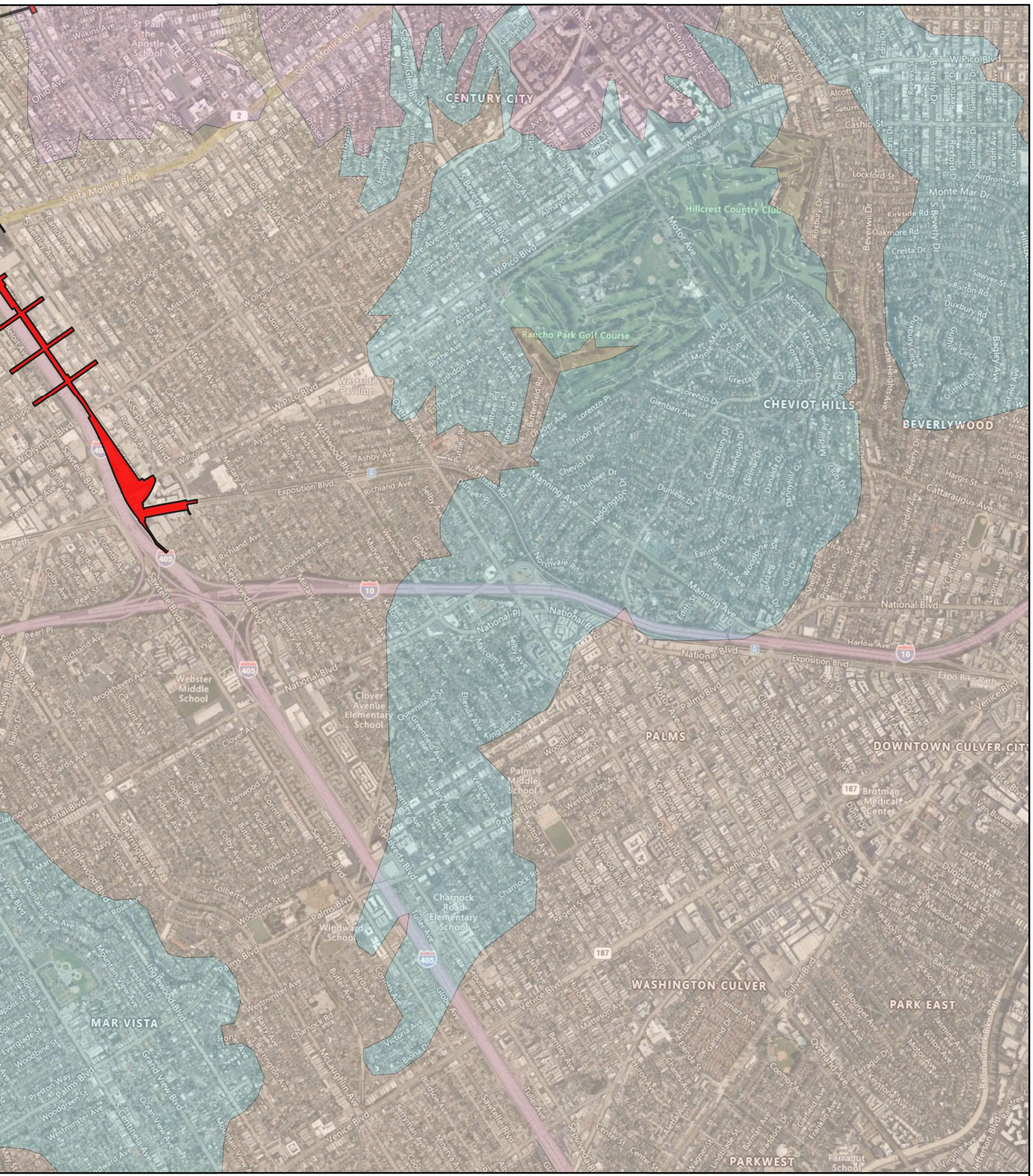

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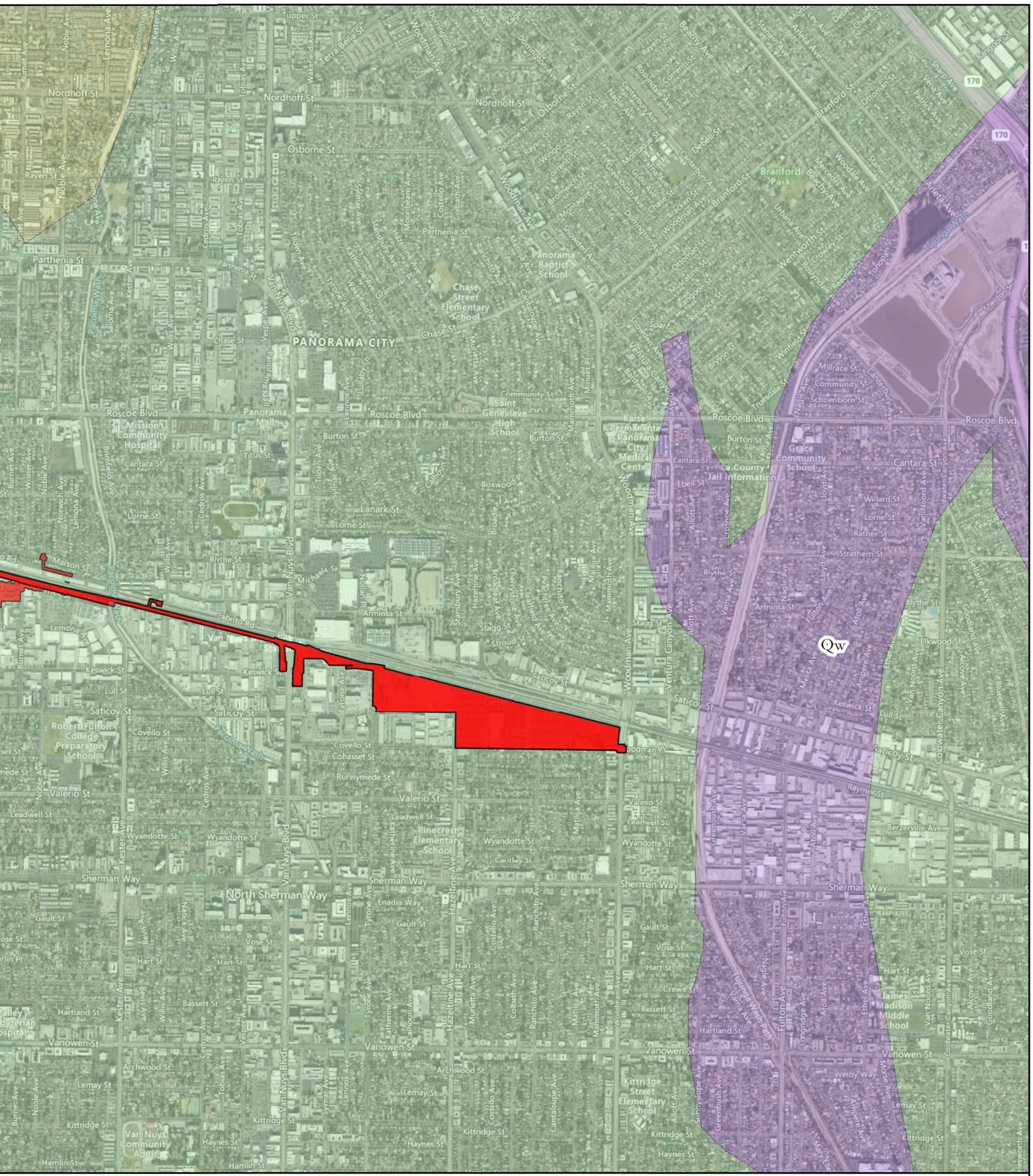

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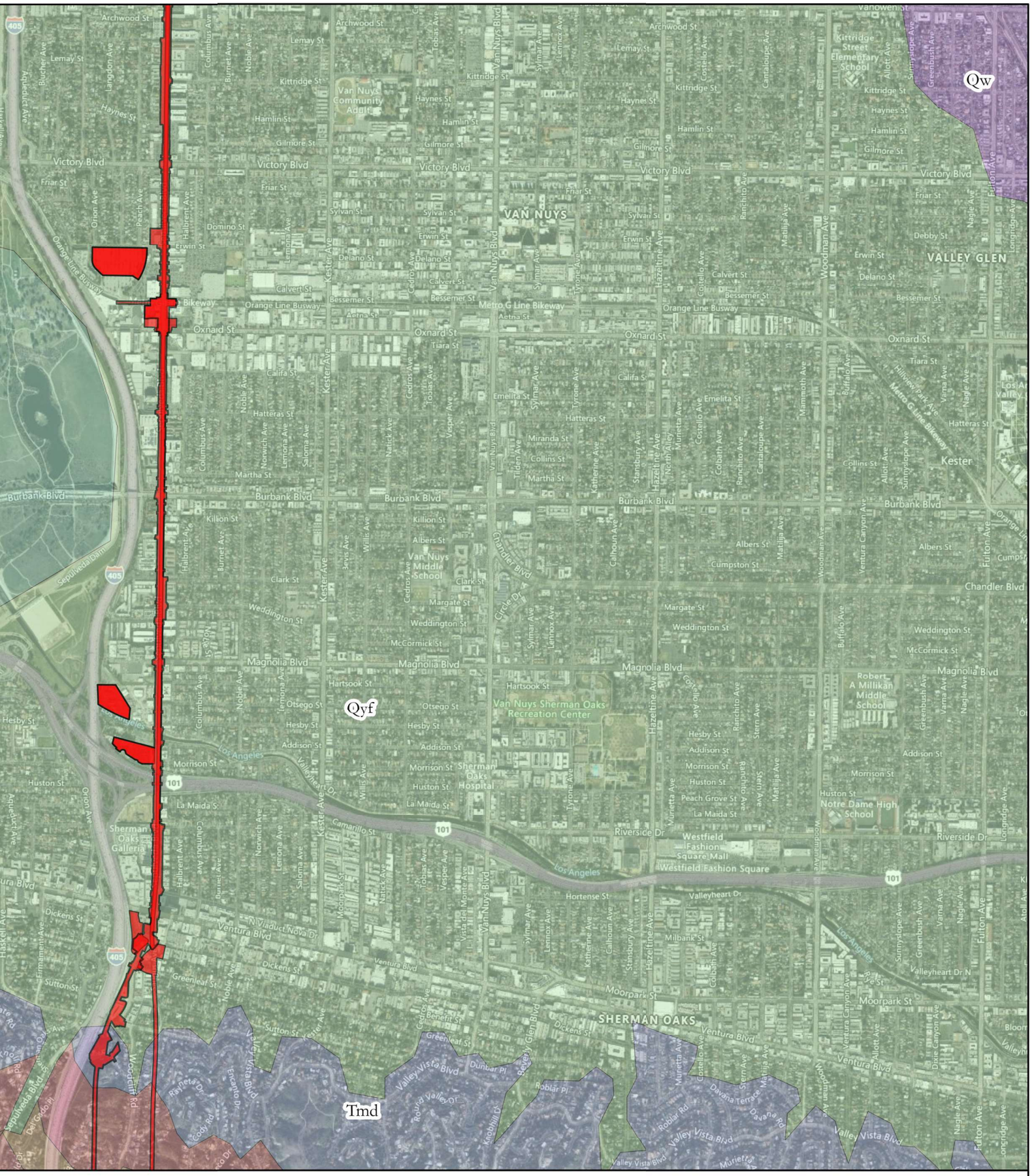

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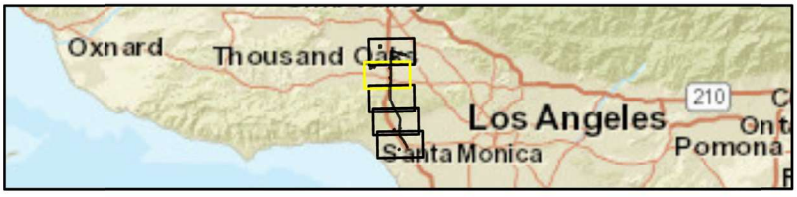

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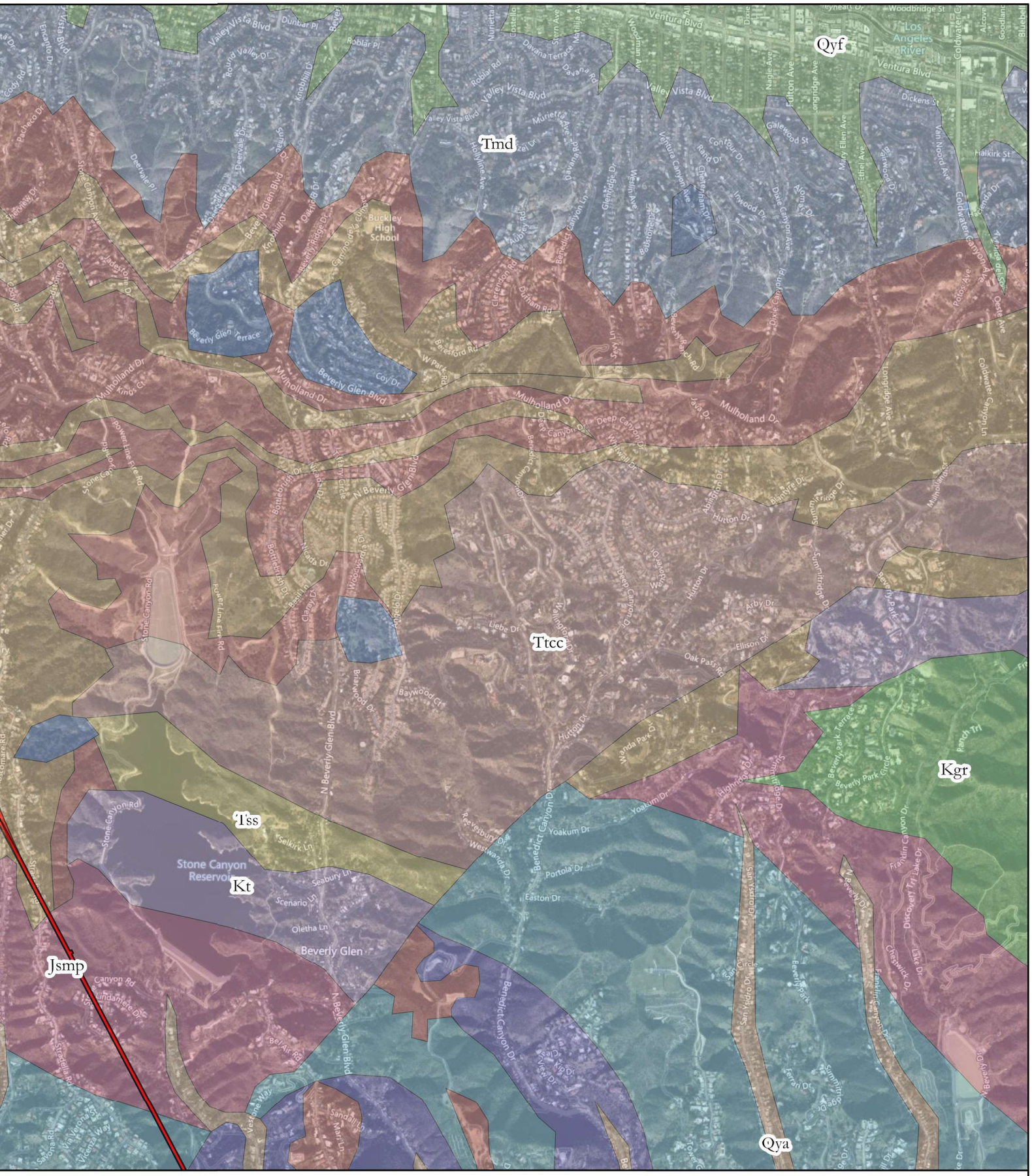

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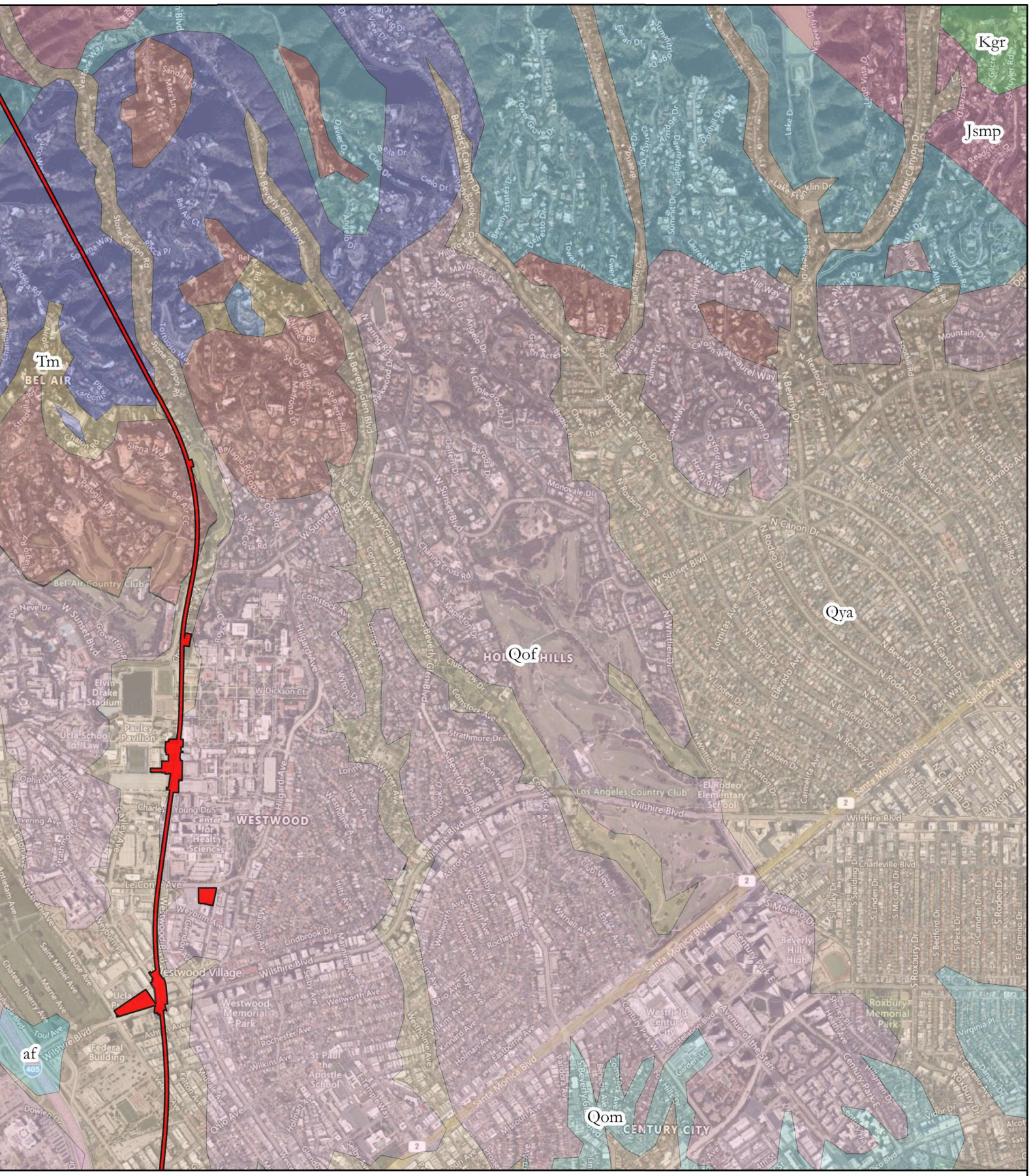

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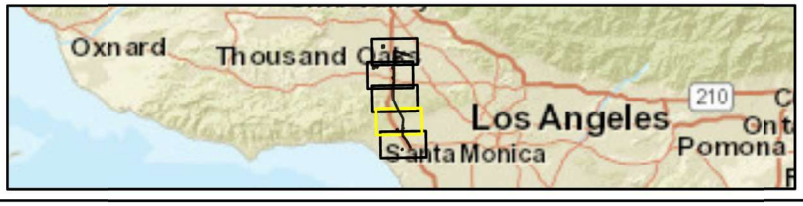

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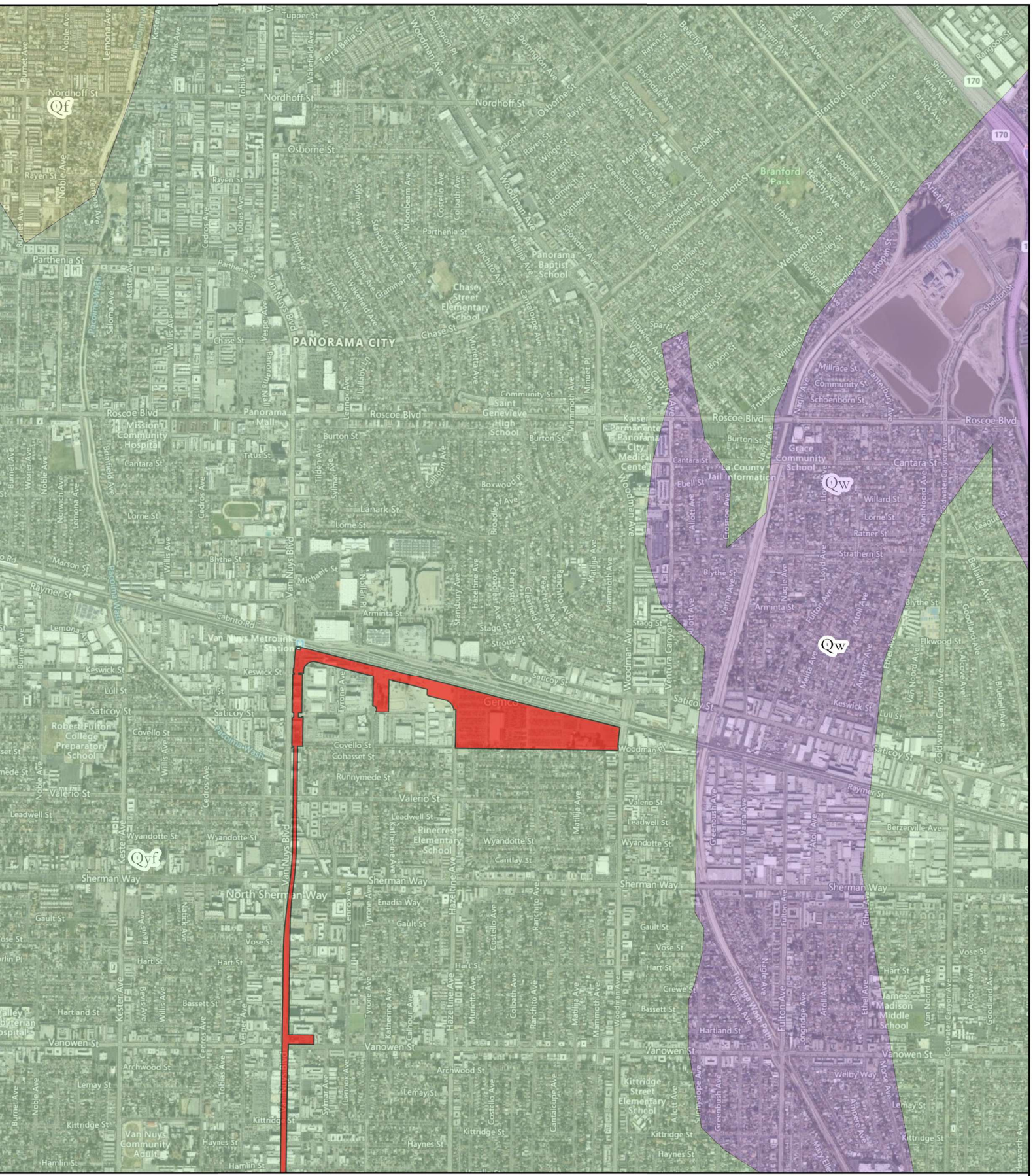

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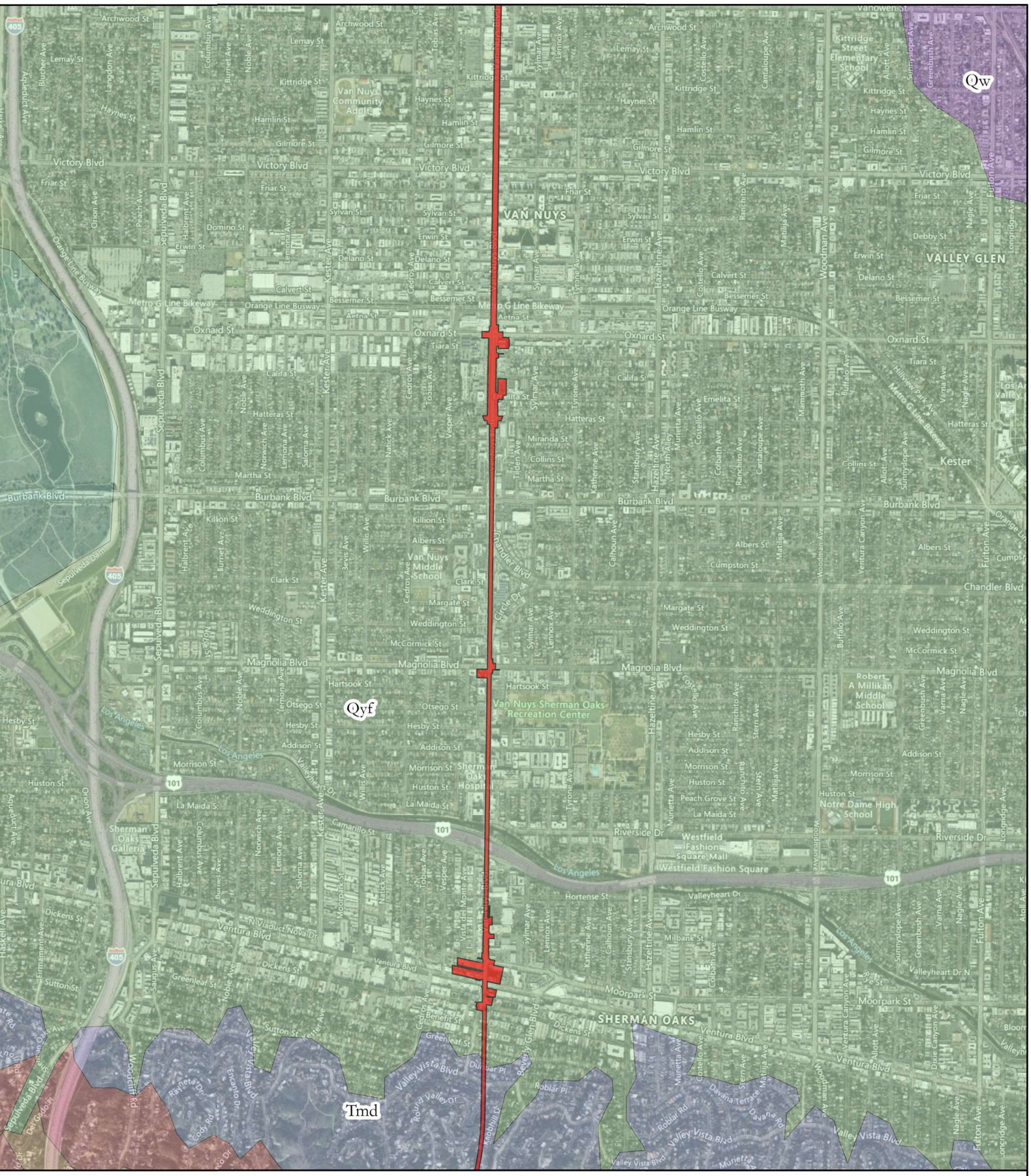

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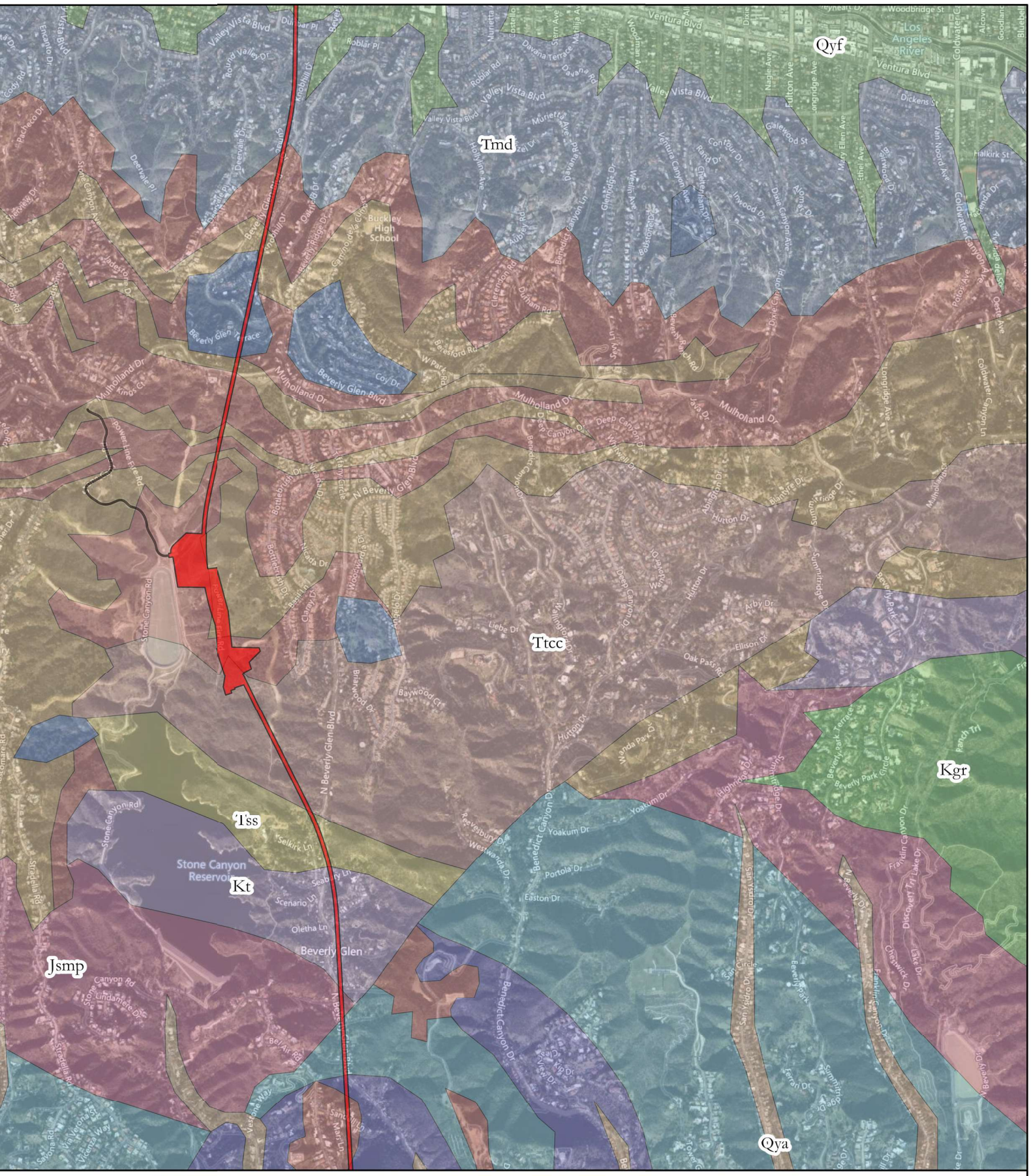

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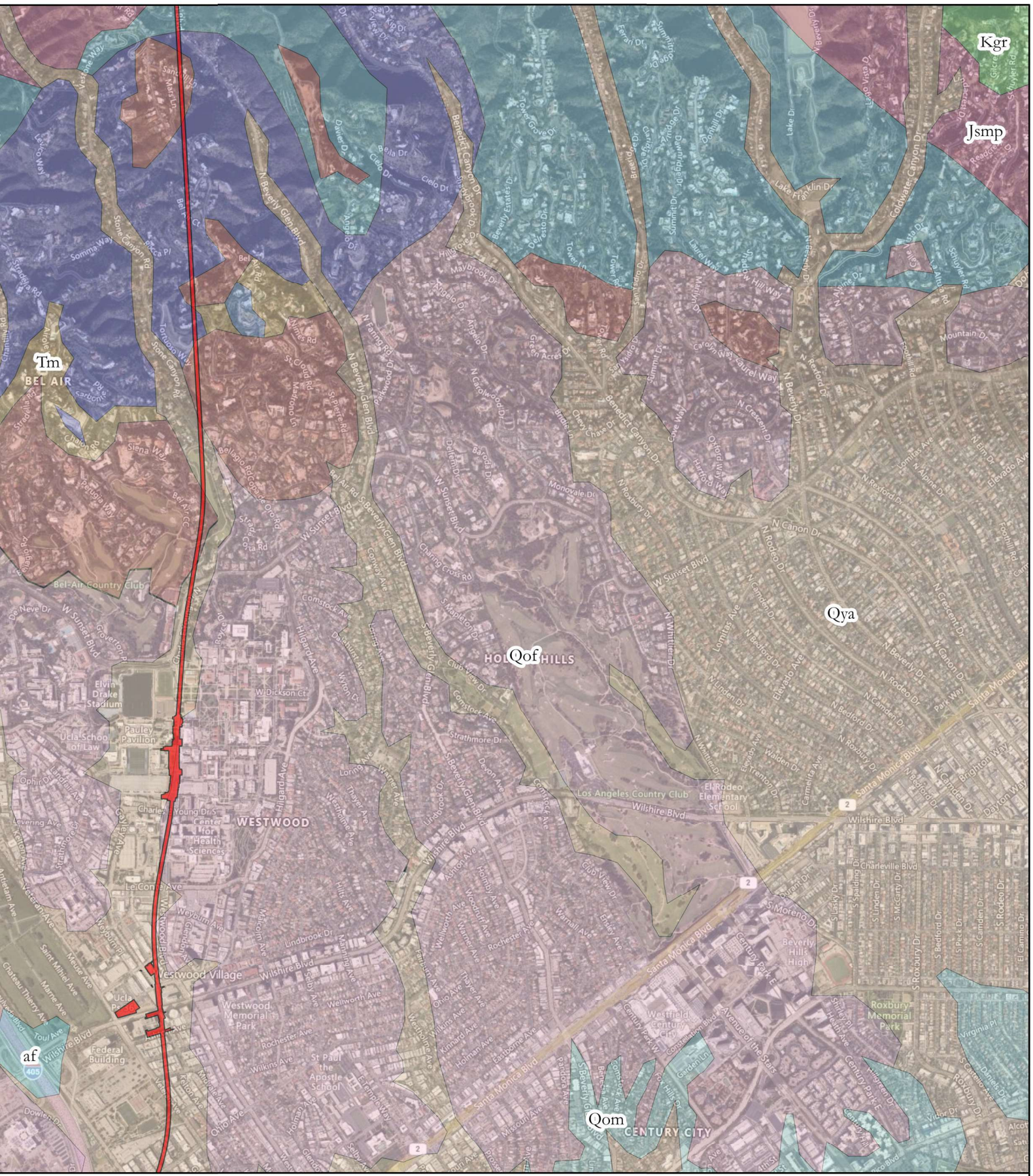

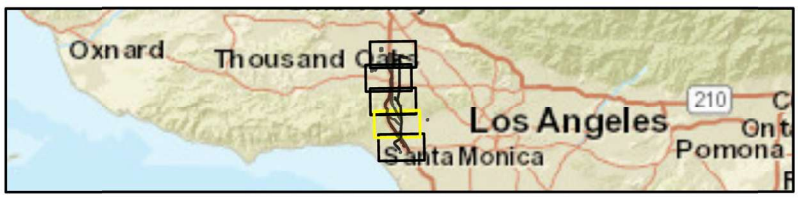

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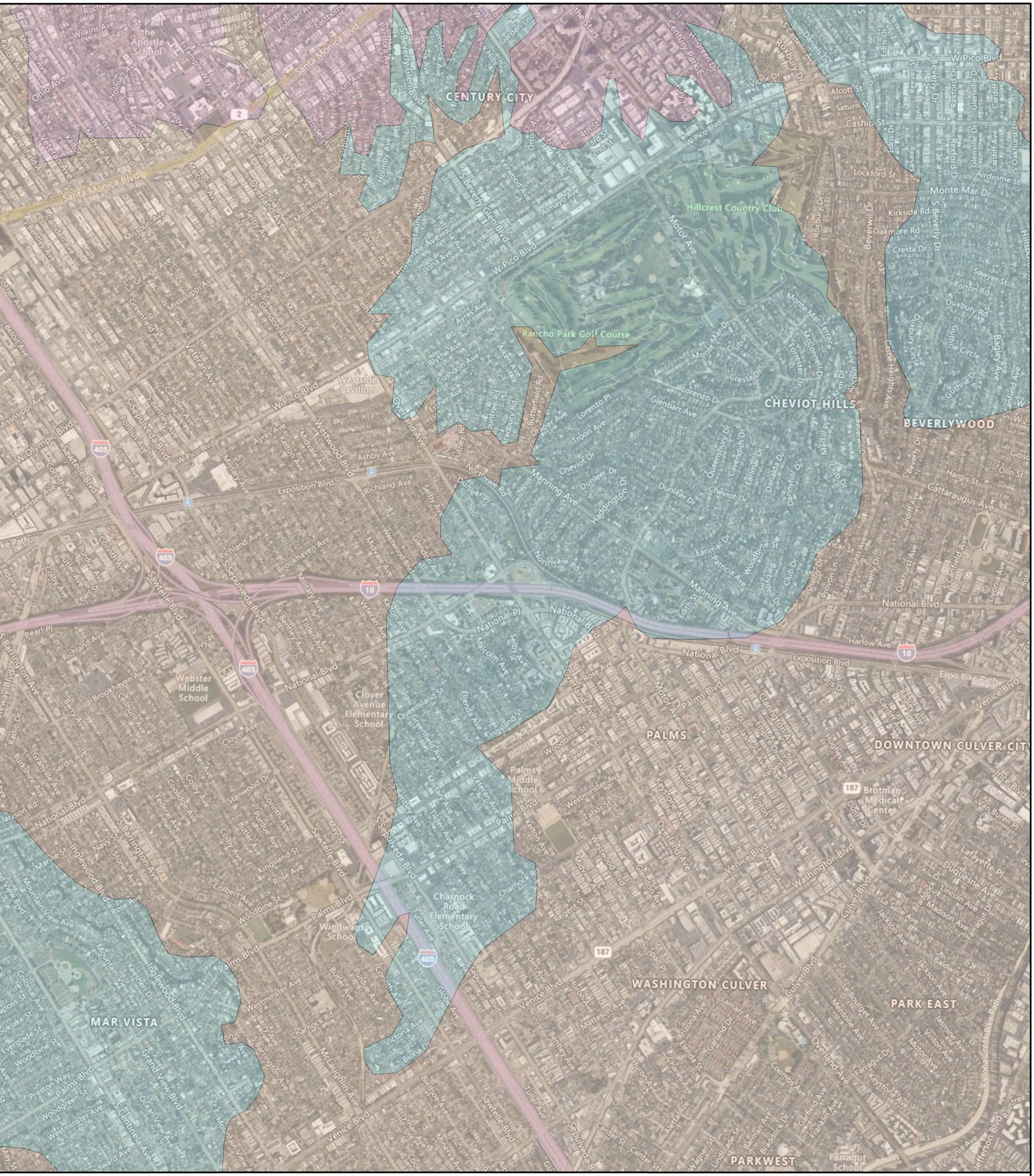

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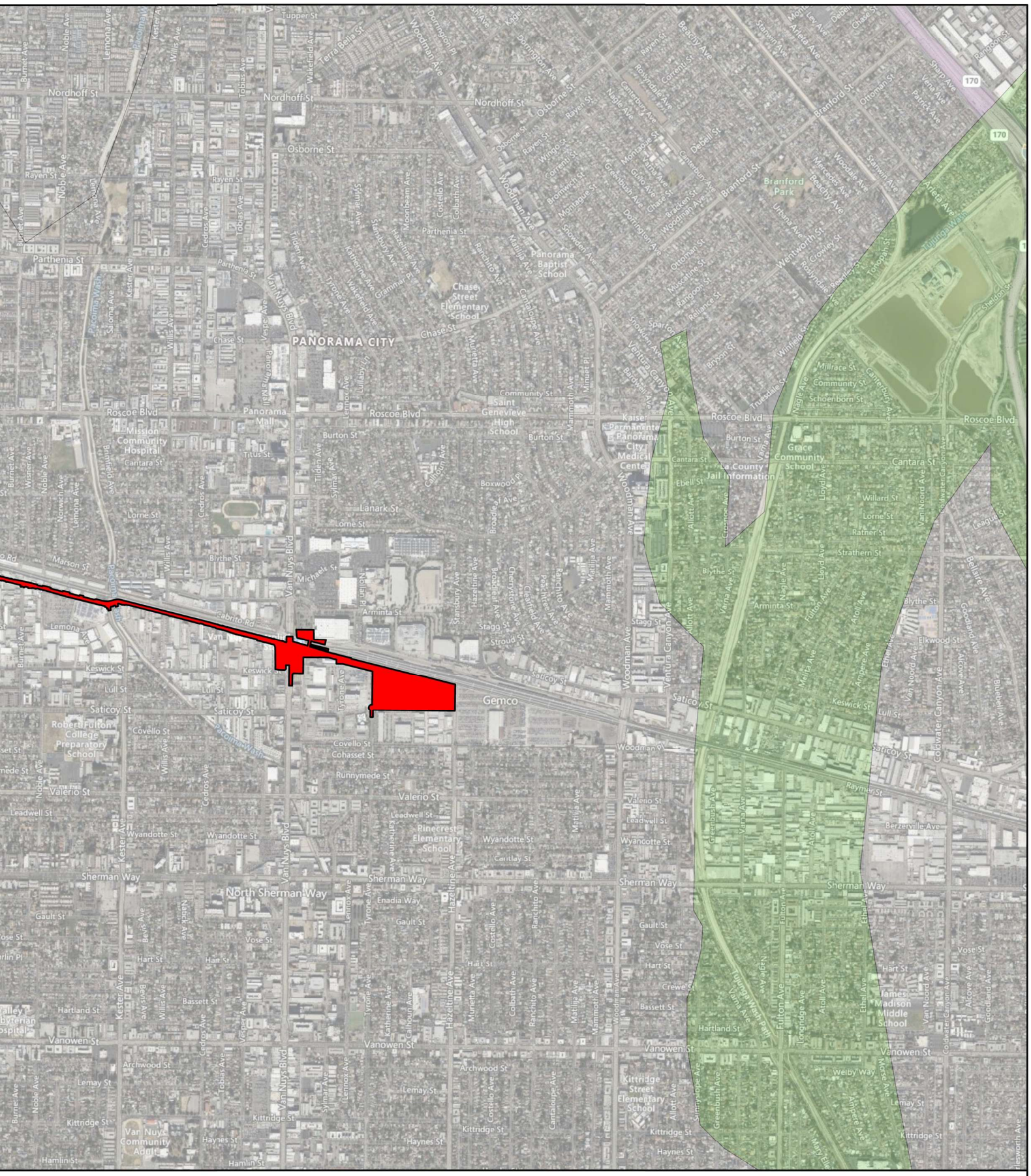
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Lull St
Vanowen St
Lemay St
Kittridge St
Haynes St
Hamlin St
Arminta St
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Cantara St
Burton St
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Keswick St
Covello St
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Valerio St
Leadwell St
Wyandotte St
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Arleta Ave
Debell St
Wentworth St
Sheldon St
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Pacoima Wash
Branford Park
Panorama Baptist School
Chase Street Elementary School
Saint Genevieve High School
Panorama Mall
Mission Community Hospital
Kaiser Permanente Panorama City Medical Center
Grace Community School
La County Jail Information
Robert Fulton College Preparatory School
Pinecrest Elementary School
Kittridge Street Elementary School
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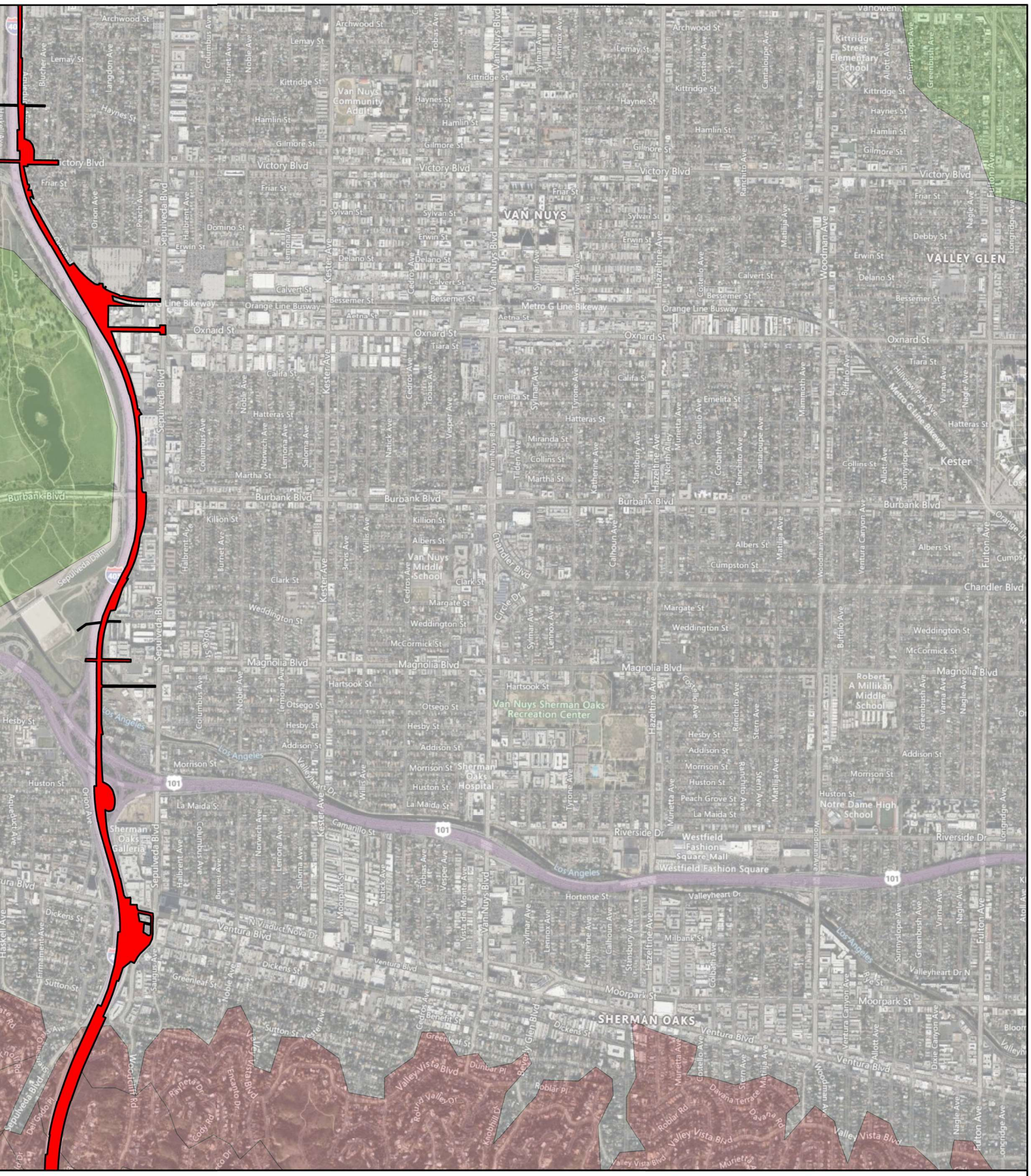
VAN NUYS
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SHERMAN OAKS
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Van Nuys Sherman Oaks Recreation Center
Van Nuys Middle School
Sherman Oaks Hospital
Robert A Millikan Middle School
Notre Dame High School
Kittridge Street Elementary School
Van Nuys Community Adult
Westfield Fashion Square Mall
Westfield Fashion Square
Sherman Oaks Galleria
Victory Blvd
Oxnard St
Burbank Blvd
Magnolia Blvd
Ventura Blvd
Chandler Blvd
Riverside Dr
Moorpark St
Valley Vista Blvd
Los Angeles
Sepulveda Blvd
Van Nuys Blvd
Woodman Ave
Metro G Line Bikeway
Orange Line Busway
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Lemay St
Kittridge St
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Sylvan St
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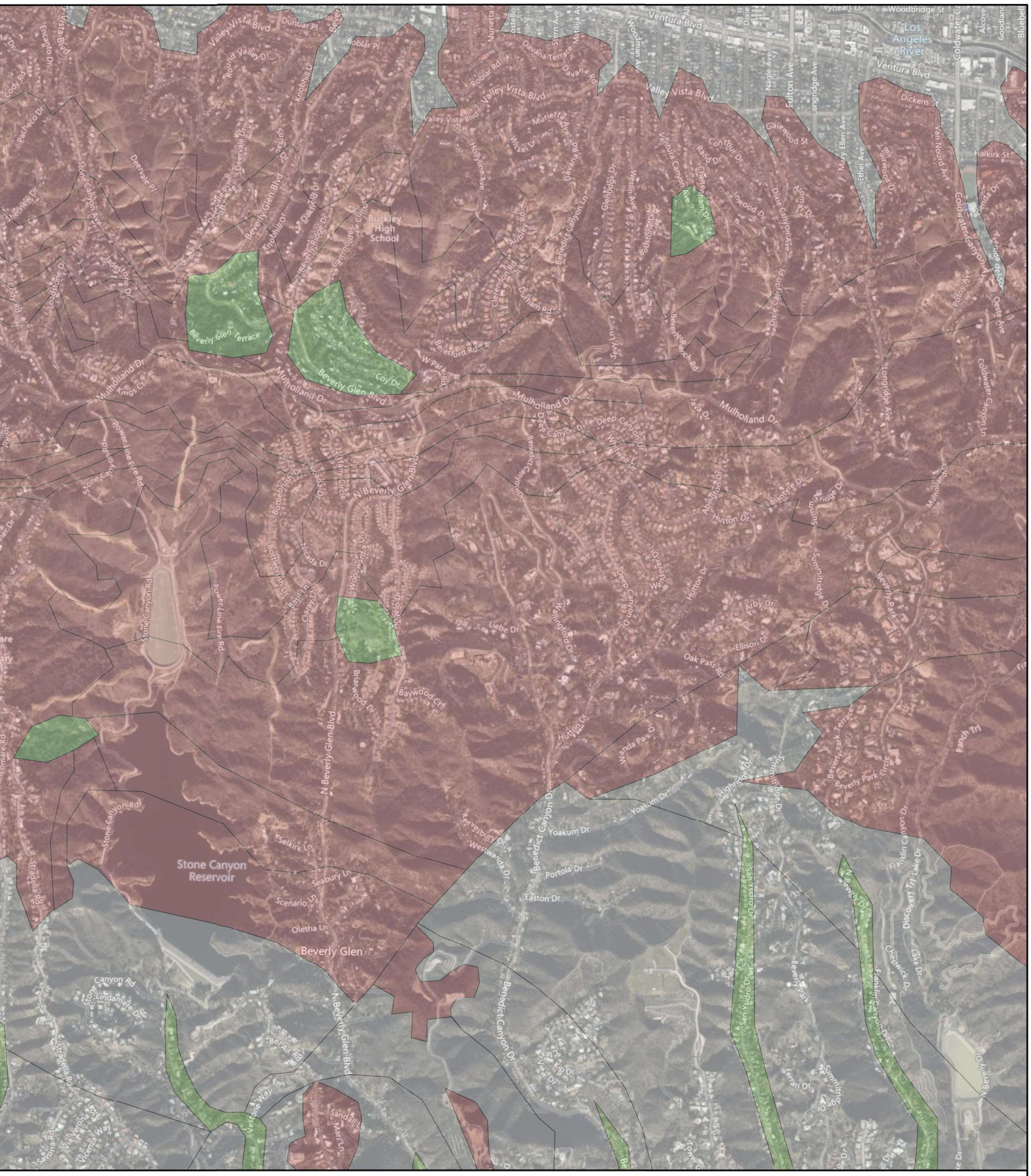
Valley Vista Blvd
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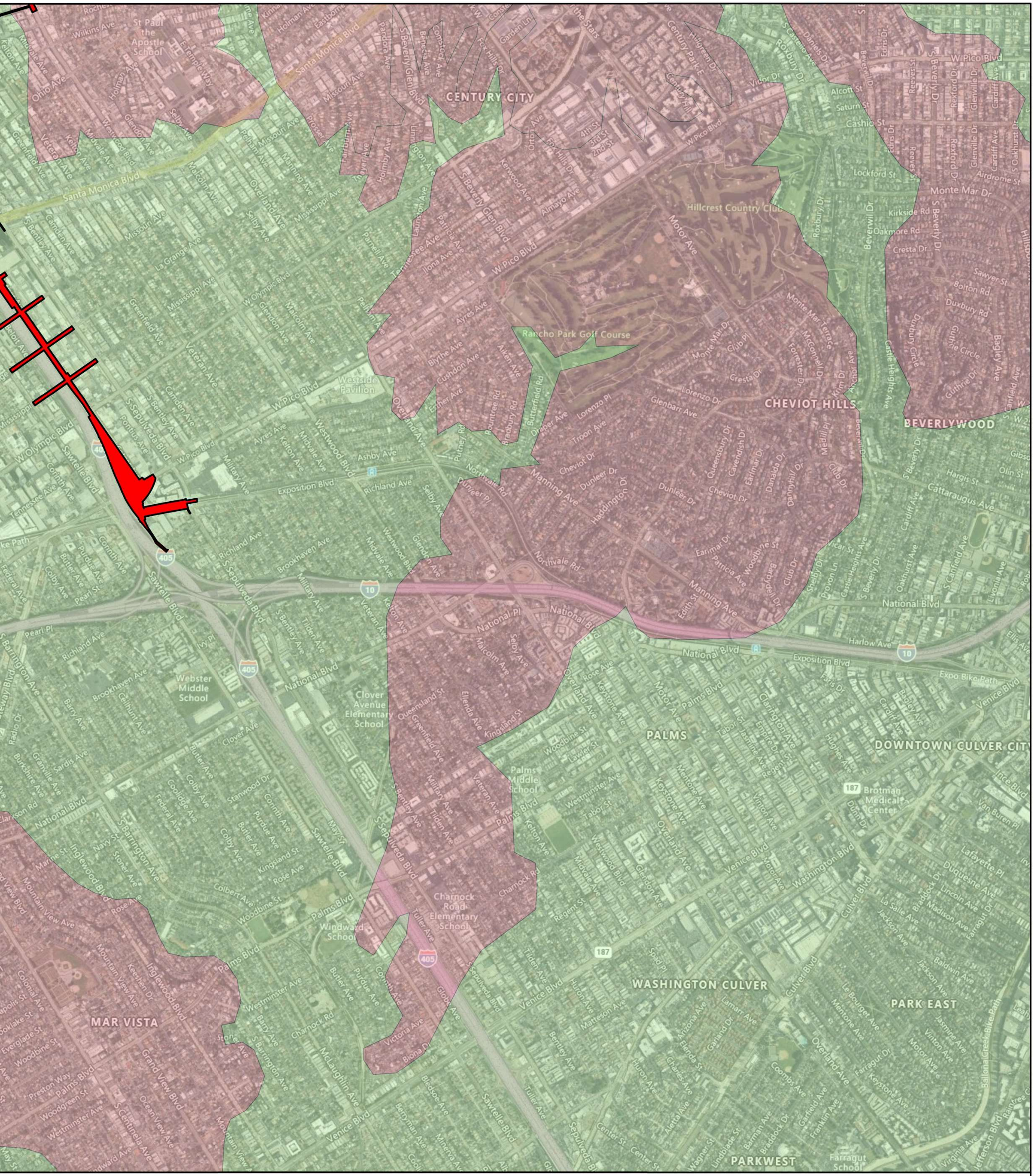

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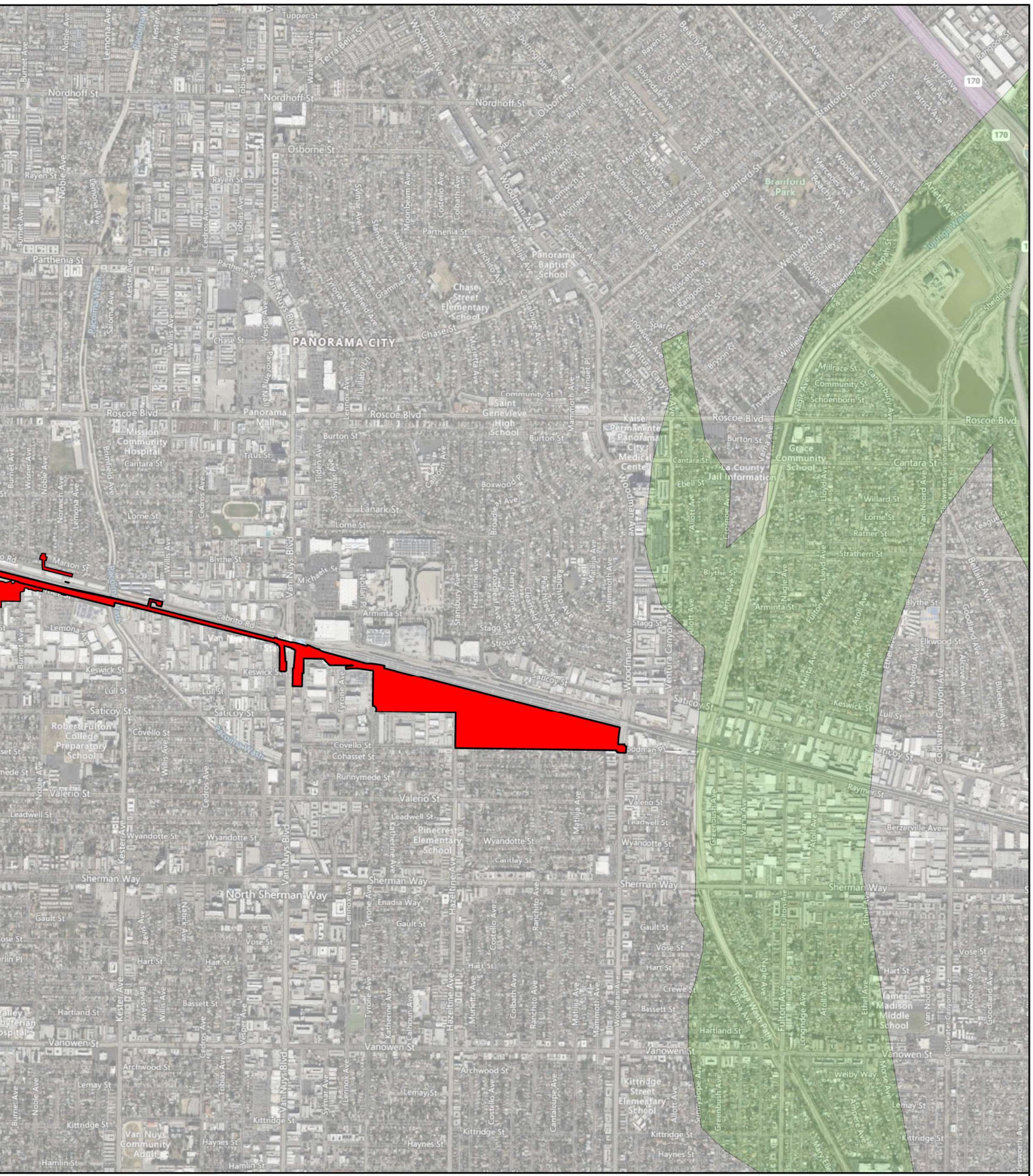
PANORAMA CITY
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Ventura Canyon Ave
Coldwater Canyon Ave
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Robert Fulton College Preparatory School
Van Nuys Community Adult
Kaiser Permanente Panorama City Medical Center
La County Jail Information
Grace Community School
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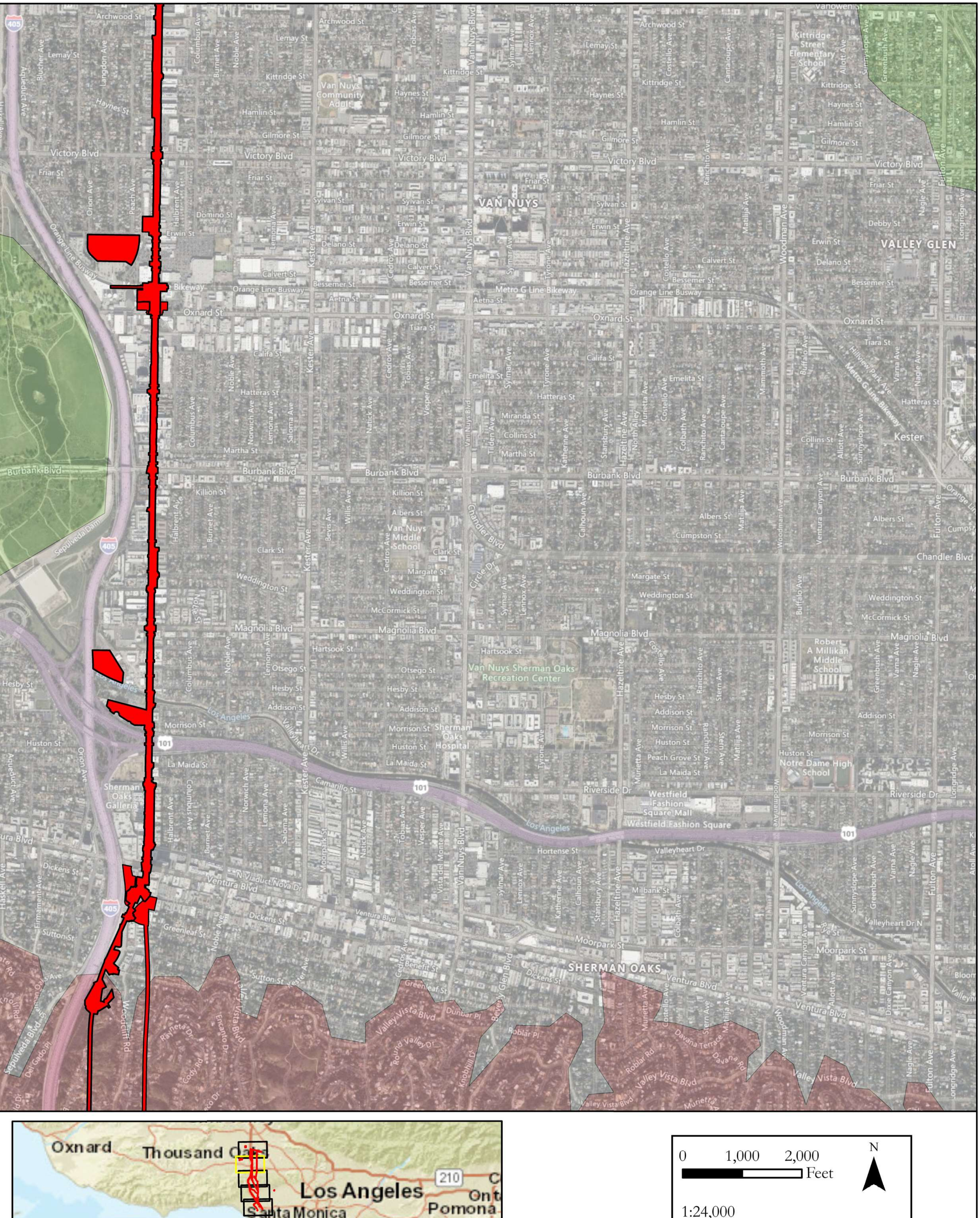
VAN NUYS
VALLEY GLEN
SHERMAN OAKS
Victory Blvd
Oxnard St
Burbank Blvd
Magnolia Blvd
Chandler Blvd
Riverside Dr
Ventura Blvd
Moorpark St
Archwood St
Lemay St
Kittridge St
Haynes St
Hamlin St
Gilmore St
Friar St
Sylvan St
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Calvert St
Bessemer St
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Tiara St
Califa St
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Hatteras St
Miranda St
Collins St
Martha St
Killion St
Albers St
Cumpston St
Clark St
Margate St
Weddington St
McCormick St
Hartsook St
Otsego St
Hesby St
Addison St
Morrison St
Huston St
La Maida St
Peach Grove St
Camarillo St
Hortense St
Valleyheart Dr
Milbank St
Dickens St
Sutton St
Greenleaf St
Valley Vista Blvd
Orange Line Busway
Metro G Line Bikeway
Van Nuys Blvd
Kester Ave
Hazeltine Ave
Woodman Ave
Fulton Ave
Sepulveda Blvd
Van Nuys Community Adult
Kittridge Street Elementary School
Van Nuys Middle School
Van Nuys Sherman Oaks Recreation Center
Sherman Oaks Hospital
Robert A Millikan Middle School
Notre Dame High School
Westfield Fashion Square Mall
Sherman Oaks Galleria
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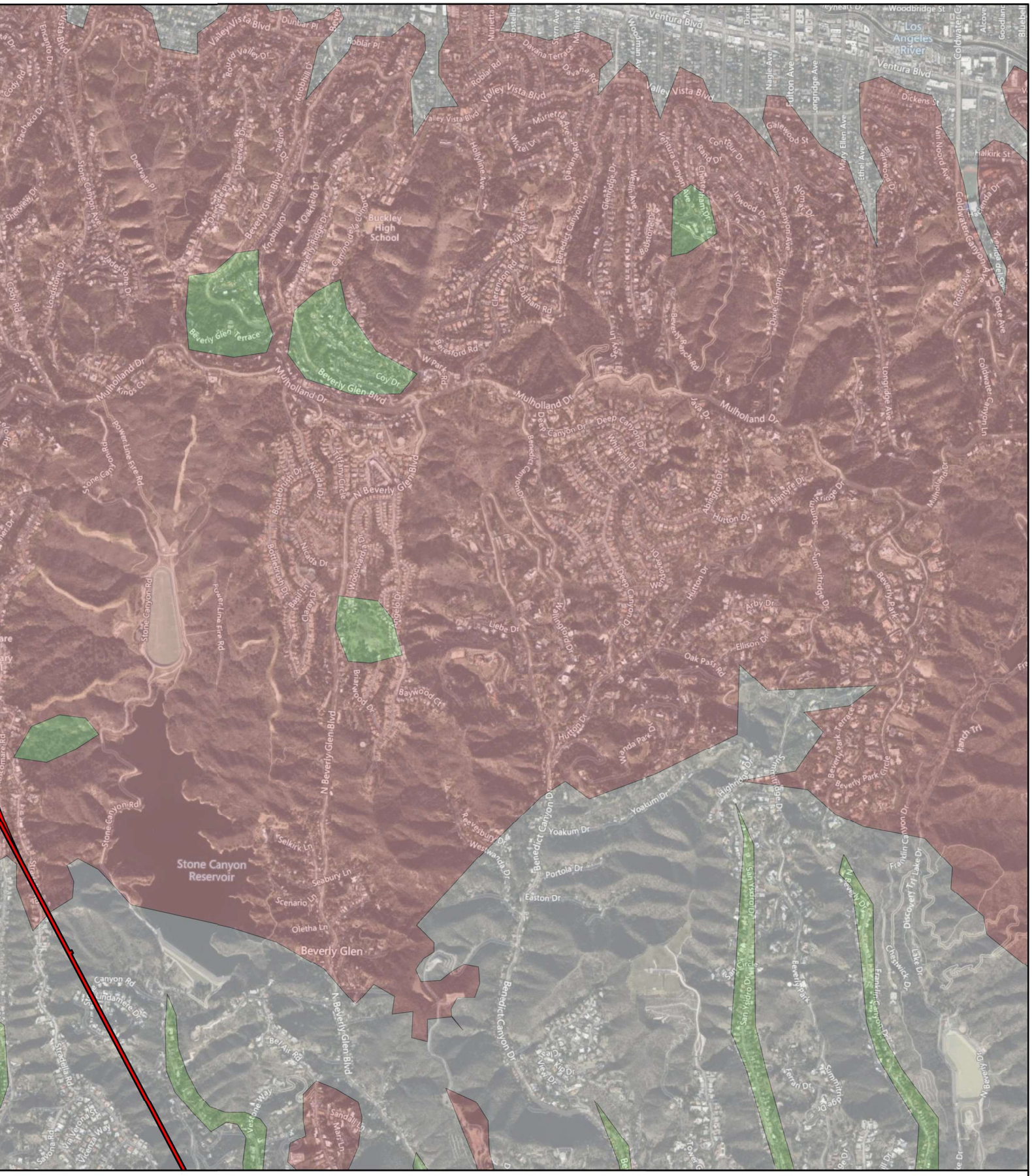
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Coy Dr
Mulholland Dr
N Beverly Glen Blvd
Stone Canyon Reservoir
Beverly Glen
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Power Line Fire Rd
Valley Vista Blvd
Ventura Blvd
Los Angeles River
Benedict Canyon Dr
Yoakum Dr
Portola Dr
Easton Dr
Deep Canyon Dr
Hutton Dr
Oak Park Rd
Ellison Dr
Liebe Dr
Baywood Ct
Briarwood Dr
Selkirk Ln
Seabury Ln
Scenario Ln
Oletha Ln
Canyon Rd
Bel Air Rd
Sunset Blvd
Coldwater Canyon Ave
Laurel Canyon Blvd
Franklin Canyon Dr
Lake Dr
Discovery Trl
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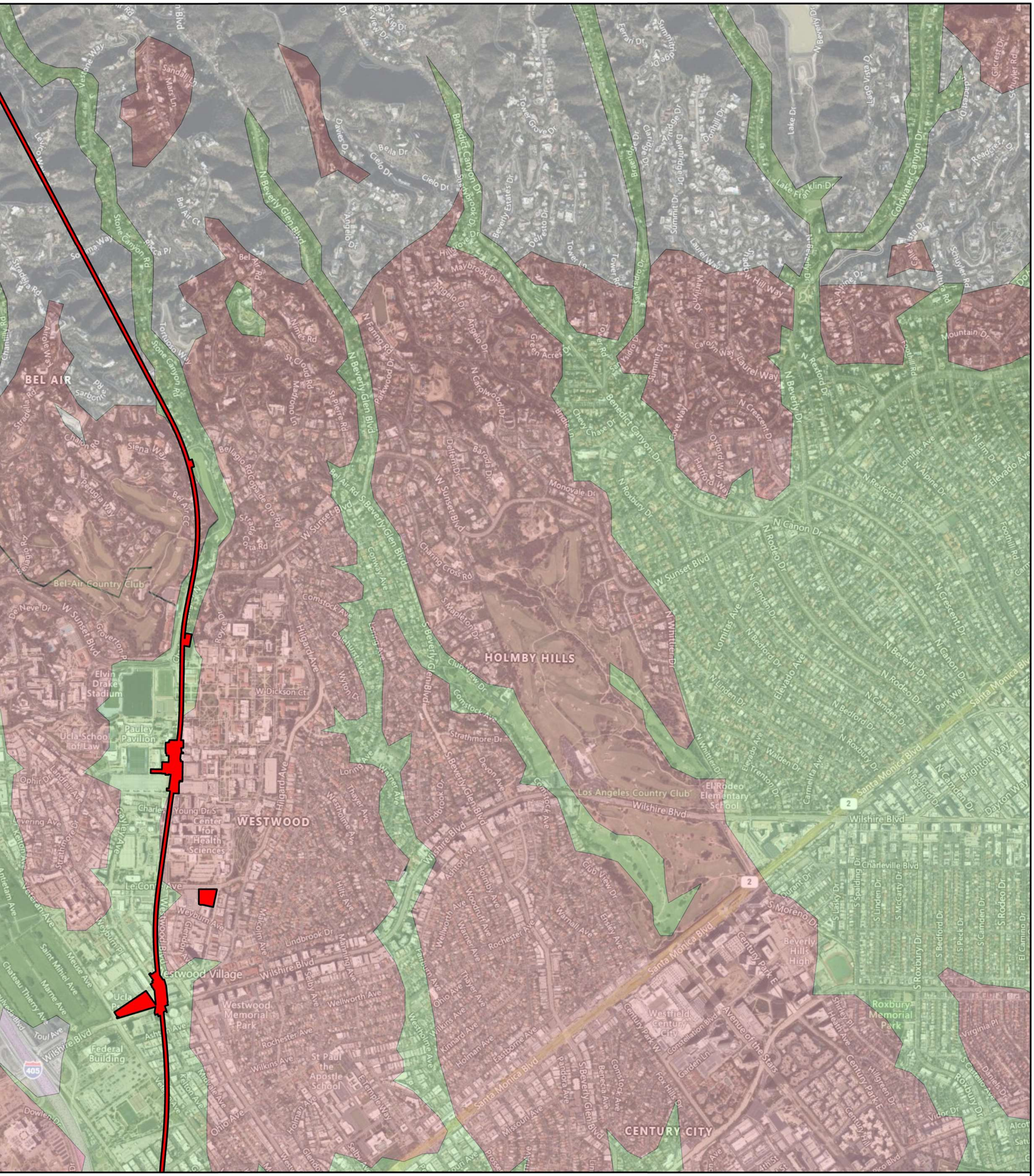

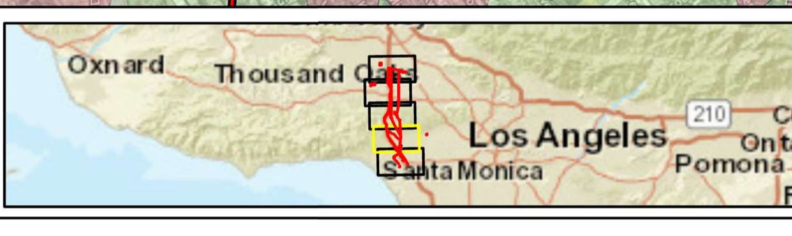

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PARK EAST
MAR VISTA
PARKWEST
Santa Monica Blvd
W Pico Blvd
Westside Pavilion
Exposition Blvd
National Blvd
Manning Ave
Overland Ave
Motor Ave
Sepulveda Blvd
Palms Blvd
Venice Blvd
Culver Blvd
Webster Middle School
Clover Avenue Elementary School
Palms Middle School
Charnock Road Elementary School
Windward School
Brotman Medical Center
Farragut School
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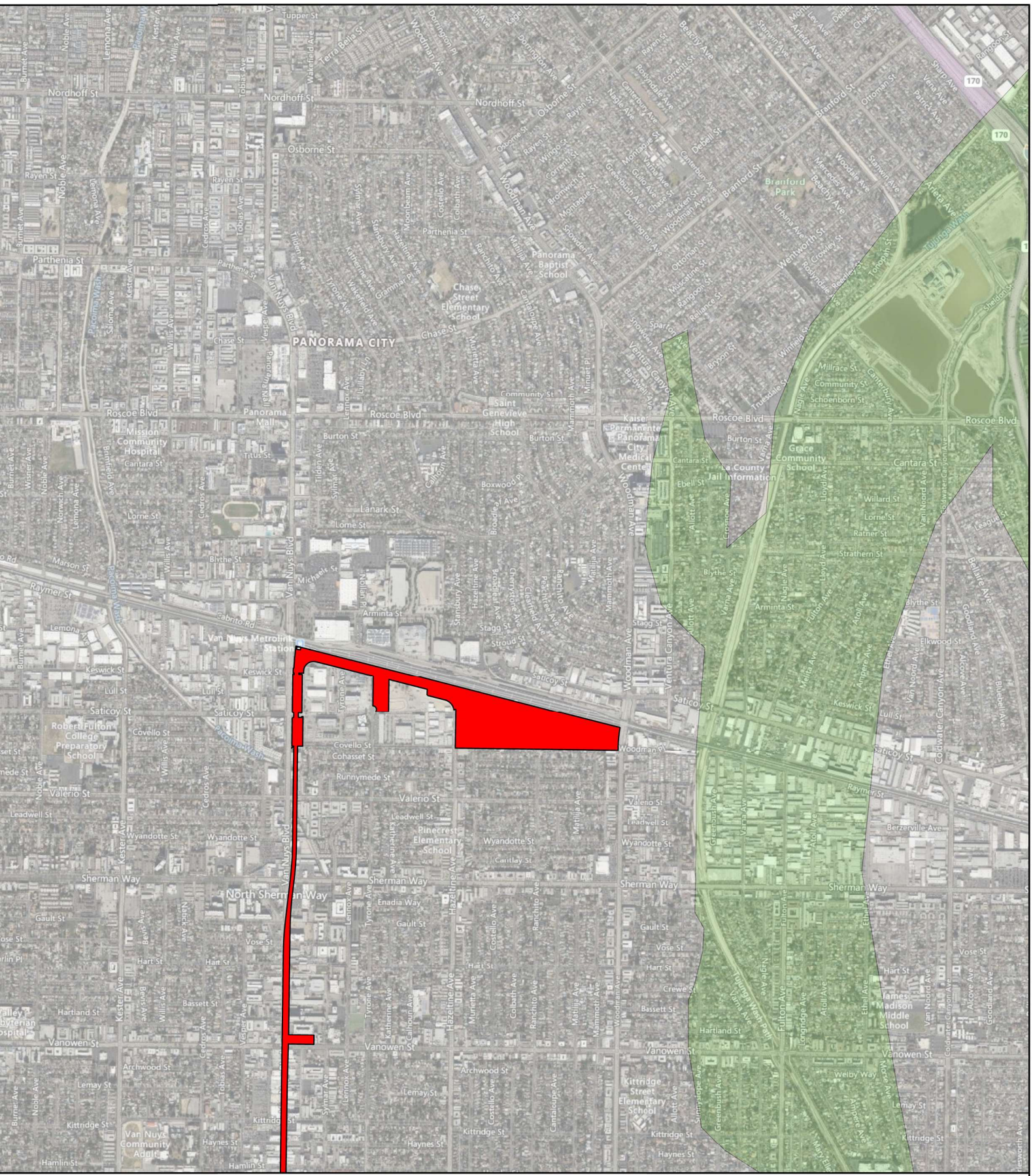
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Osborne St
Parthenia St
Roscoe Blvd
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Sherman Way
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Lemay St
Kittridge St
Haynes St
Hamlin St
Van Nuys Blvd
Woodman Ave
Branford Park
Panorama Baptist School
Chase Street Elementary School
Saint Genevieve High School
Mission Community Hospital
Panorama Mall
Kaiser Permanente Panorama City Medical Center
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Robert Fulton College Preparatory School
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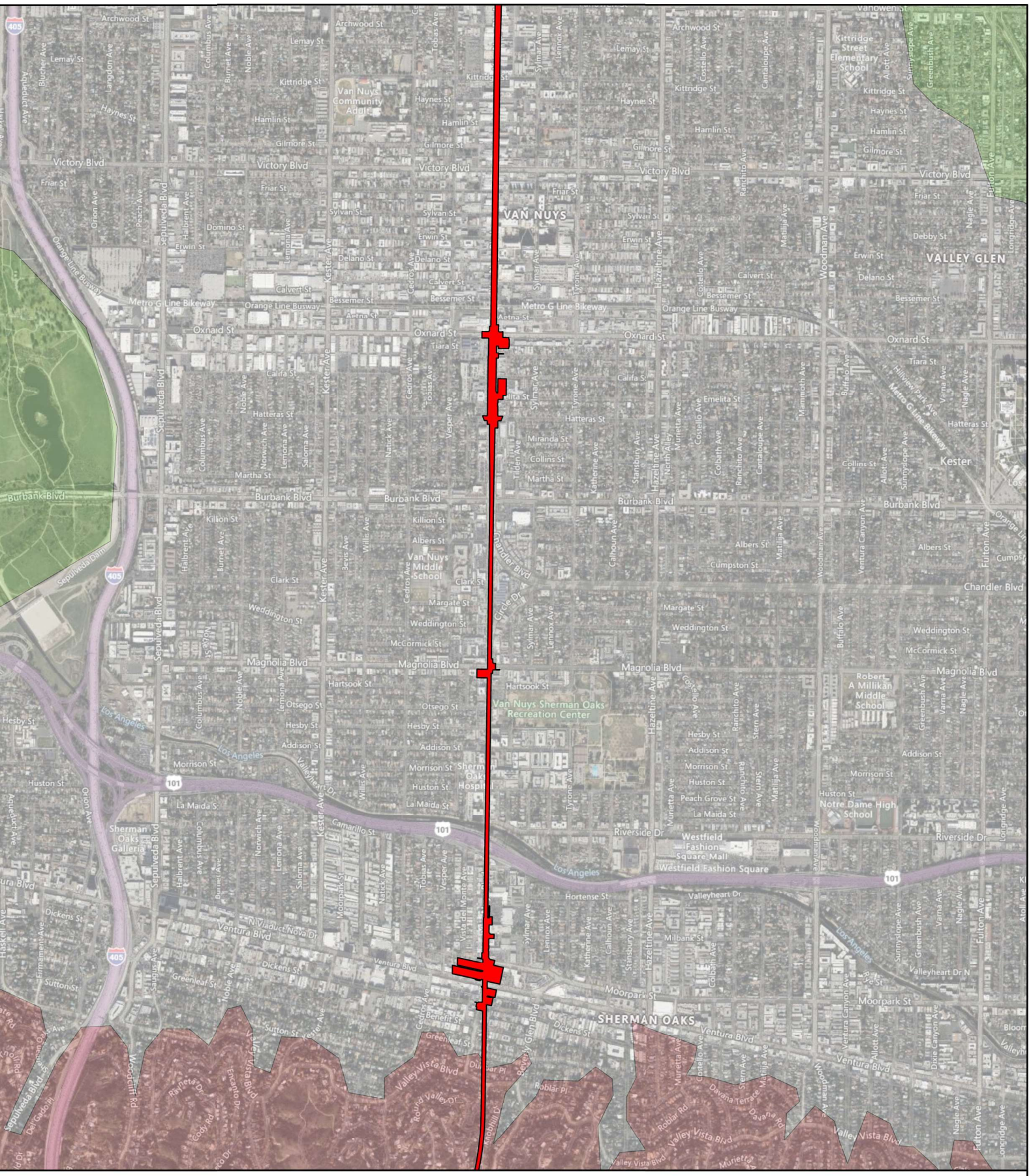

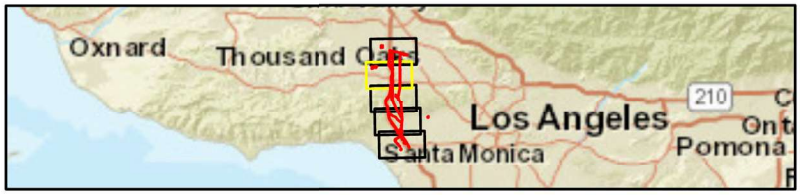

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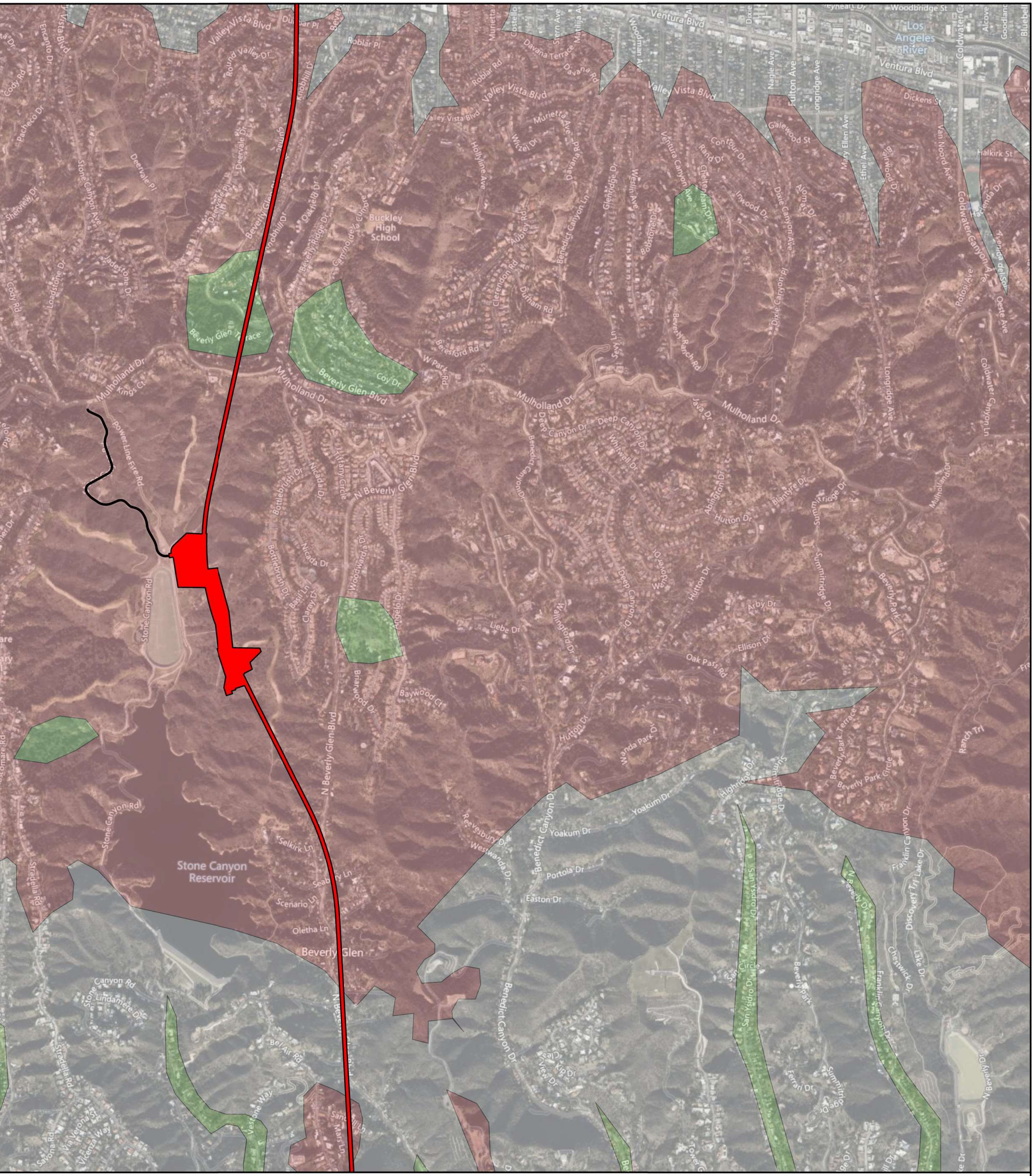

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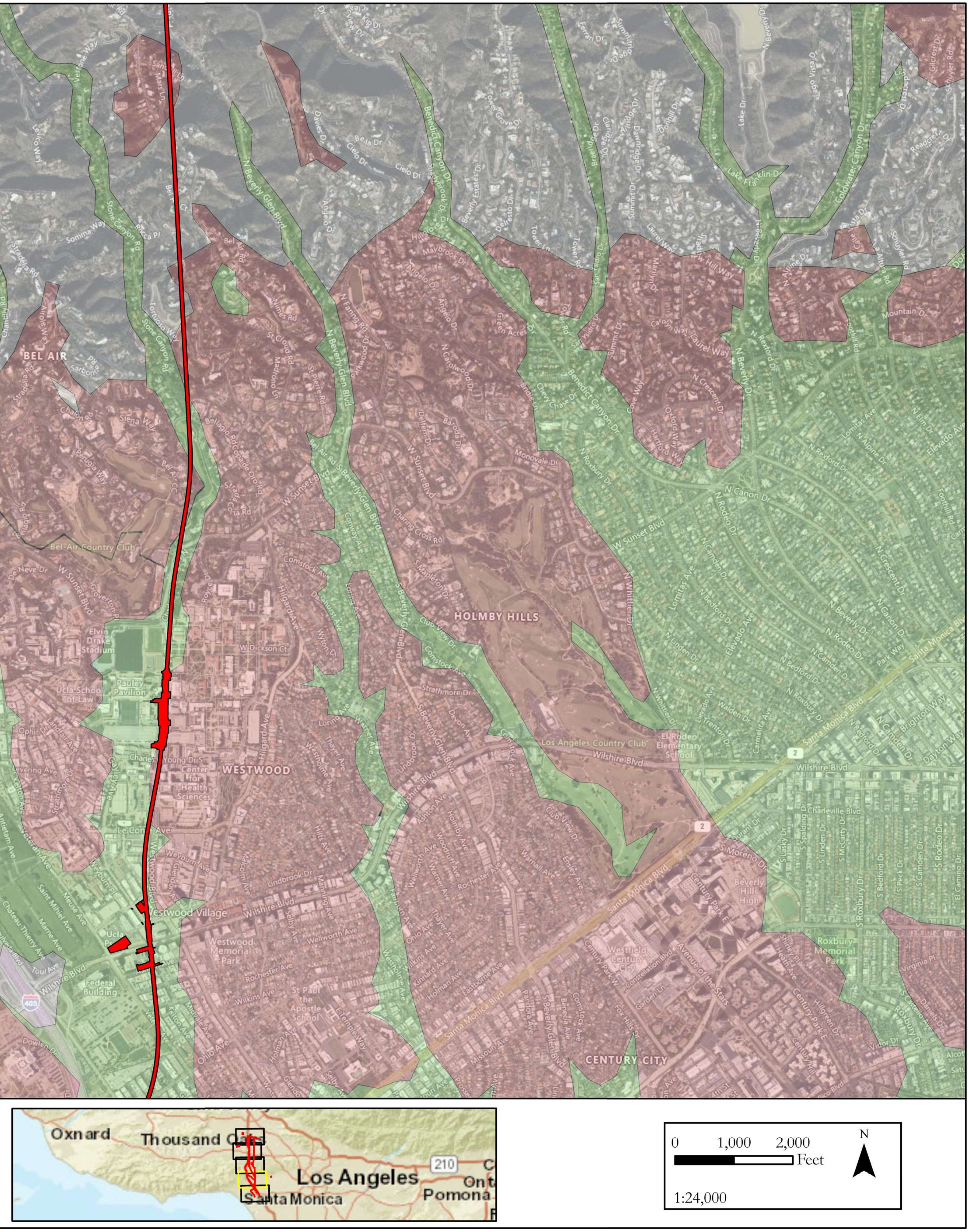
BEL AIR
HOLMBY HILLS
WESTWOOD
CENTURY CITY
Bel-Air Country Club
Los Angeles Country Club
Westwood Village
Elvin Drake Stadium
Pauley Pavilion
Ucla School of Law
Center for Health Sciences
Westwood Memorial Park
Federal Building
Westfield Century City
Beverly Hills High
Roxbury Memorial Park
El Rodeo Elementary School
St Paul the Apostle School
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Wilshire Blvd
Santa Monica Blvd
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ATTACHMENT 2

Results of Paleontological Records Search (NHMLAC)

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007
tel 213.763.DINO
www.nhm.org

NATURAL HISTORY MUSEUM
LOS ANGELES COUNTY

Research & Collections

e-mail: paleorecords@nhm.org

June 11, 2023

Duke Cultural Resources Management
Attn: Morgan Beigle

re: Paleontological resources for the Sepulveda Corridor Transit Project

Dear Morgan:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Sepulveda Corridor Transit project area as outlined on the portion of the Van Nuys, Canoga Park, and Beverly Hills USGS topographic quadrangles map that you sent to me via e-mail on June 7, 2023. The collections of the Natural History Museum of Los Angeles County (NHMLA) appear to have fossil localities directly in the project area, as shown in the below table.

Locality Number	Location	Formation	Taxa	Depth
LACM VP 1681	Sepulveda Freeway cut, adjacent to where Royal Ridge Road ends	Modelo Formation	Pipefish (*Syngnathus avus*)	Unknown
LACM VP 1894	Beverly Glen Canyon on Beverly Glen Boulevard 1/4 mile south of Sumac Road on West side of canyon	Modelo Formation	Fish (Osteichthyes)	Unknown

We have additional fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth. The following table shows the closest of these nearby localities.

Locality Number	Location	Formation	Taxa	Depth
LACM VP 7879	Penmar Recreation Center; intersection of Penmar Ave and Rose Ave; Venice	Unknown formation (Pleistocene; sandy silty clay)	Rodent (Rodentia); ground sloth (*Paramylodon*); horse (*Equus*)	11 - 130 feet bgs
LACM VP 5462	2500 block of Michigan Ave, Santa Monica	Unknown formation (Pleistocene)	American lion (*Felis atrox*)	6 feet bgs
LACM VP 5833	10580 Wilshire Blvd.; south side of street between Thayer & Westholme	Lakewood Formation (poor to well graded; greyish-brown sand &	Freshwater snails; rodents (Rodentia); horse (*Equus)*	Unknown

	Avenues in excavation for building called 'The Wilshire'	sandy silt with occasional gravels & grey-black cobbles)		
LACM IP 20153, 1302	E. side of Stone Canyon Reservoir	Tuna Canyon Formation (Thin bed of limestone above red conglomerate)	Invertebrates (uncatalogued)	Surface
LACM IP 23350	Upper Stone Canyon Reservoir; collected from reservoir bottom; 50'-75' north of Gate tower	Modelo Formation	Invertebrates (*Mizuhobaris*)	Surface
LACM IP 20343	On a ridge just west of Stone Canyon Reservoir	Topanga Formation	Invertebrates (*Turritella pacheoensis, Mesalia martinezensis*)	Surface
LACM IP 20341	north of Stone Canyon Reservoir; about 1/2 mile northwest of Beverly Glen Blvd	Topanga Formation	Invertebrates (*Panopea, Clementia, Turritella*)	surface
LACM IP 7053	Top of ridge 1 3/4 miles east and 1 1/2 miles north of SE corner of Reseda Quadrangle	Poss. Modelo Formation	Invertebrates (uncatalogued)	Unknown
LACM VP 65112	road cut on the east side of the San Diego Freeway; near Del Gado Dr.	Modelo Formation	Unspecified vertebrates	Unknown
LACM IP 438	Woodcrest Drive off Sepulveda Blvd; Encino	Altamira Shale	Invertebrates (*Rhyssematus*)	Unknown
LACM VP 6208, 3263	Burbank Blvd. & Kester Ave. in Van Nuys	Unknown formation (Pleistocene)	Bison (*Bison*); Horse family (Equidae)	20 feet bgs
LACM VP 3822	Calvert St, S of Sylvan Park School, Van Nuys	Unnamed lacustrine deposit (Pleistocene)	Bison (*Bison*)	75-100 feet bgs

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,

Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice