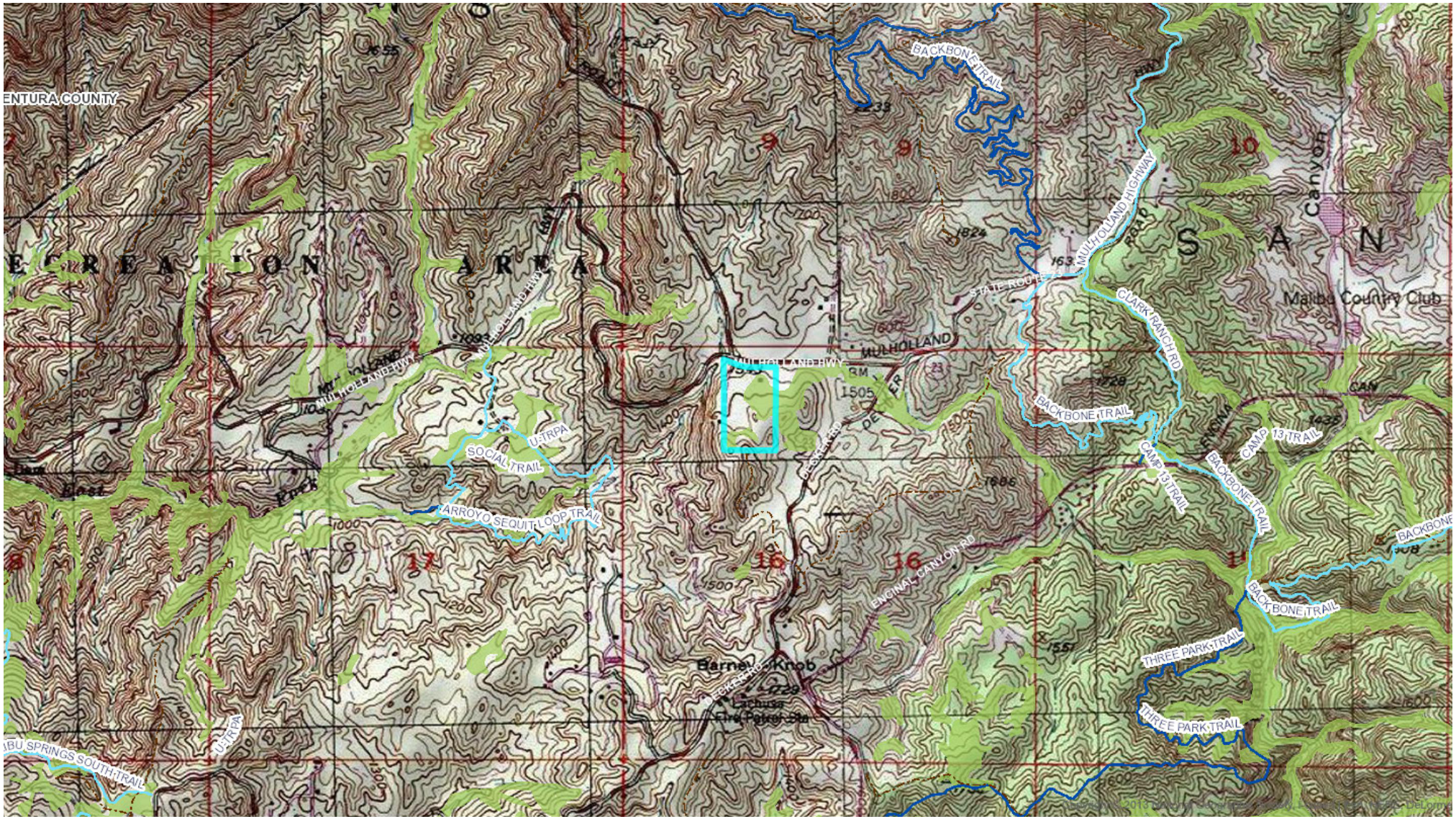
Rollins Rural Inn Project, R2015-01265, CDP 201500059, APN 4472-009-012
33528 Mulholland Highway, Malibu, 90265

Page	Illustration
2	Vicinity topo showing watersheds of East Fork Arroyo Sequit and Encinal Canyon
3	Vicinity protected lands, significant ridgeline
4	Project topo showing project plan
5	Project post-construction run-off plan
6	Mapped habitat categories
7	Parcel aerial
8	Parcel view from southern end of fuel modification looking northward
9	Habitat designations, NPS analysis from aerial photographs
10-11	Alliance codes for habitat designations
12	Oak woodland of the proposed cabin area, main coast live-oak, 2015.11
13	Lichen cover on the coast live-oak
14	Main coast live-oak, 2016.03
15	Lichen cover, 2016.03
16	Lichen cover, 2016.03
17	Lichen cover on toyon in the oak woodland of the proposed cabin area, 2016.03
18	Oak woodland of proposed cabin area, 2016.06
19	Survey of sensitive elements on proposed cabin area, 2016.03, Carl Wishner; habitat categories according to his survey, not mapped categories
20	Wildflower, Padre's shooting star (Primula clevelandii) 2016.03
21	Wildflower, Padre's shooting star, 2016.03
22	Wildflower, Padre's shooting star, 2016.03
23	Wildflower, Davey's skullcap (Scutellaria tuberosa) , 2016.03
24	Wildflower, Davey's skullcap, 2016.03
25	Wildflower, Foothill penstemon (Penstemon heterophylla), 2016.05
26	Wildflower, Foothill penstemon at the cabin area rock outcrop, 2016.05
27	Wildflower, Foothill penstemon, 2016.05
28	Wildflowers, Wooly bluecurls, (Trichostemma lanatum), Black mint (Salvia mellifera), others 2016.05
29	Wildflower, Aster, 2016.07
30	Rock outcrop with lichen/bryophyte cover, summit area
31	Rock outcrop with lichen/bryophyte cover, along Mulholland highway
32	Rock outcrop with lichen/bryophyte cover, along Mulholland highway
33	Rock outcrop with lichen/bryophyte cover, along Mulholland highway
34	Rock outcrop with lichen/bryophyte cover, proposed cabin area. 2016.03
35	Rock outcrop with lichen/bryophyte cover, proposed cabin area, 2016.05
36	Rock outcrop with lichen/bryophyte cover, proposed cabin area, 2016.07
37	Rock outcrop with lichen/bryophyte cover, boulder near E property line and H1 oak woodland
38	Rock outcrop with lichen/bryophyte cover, boulder near E property line and H1 oak woodland



Rollins Rural Inn, AOPN 4472-009-012

R2015-01265, CDP 201500059

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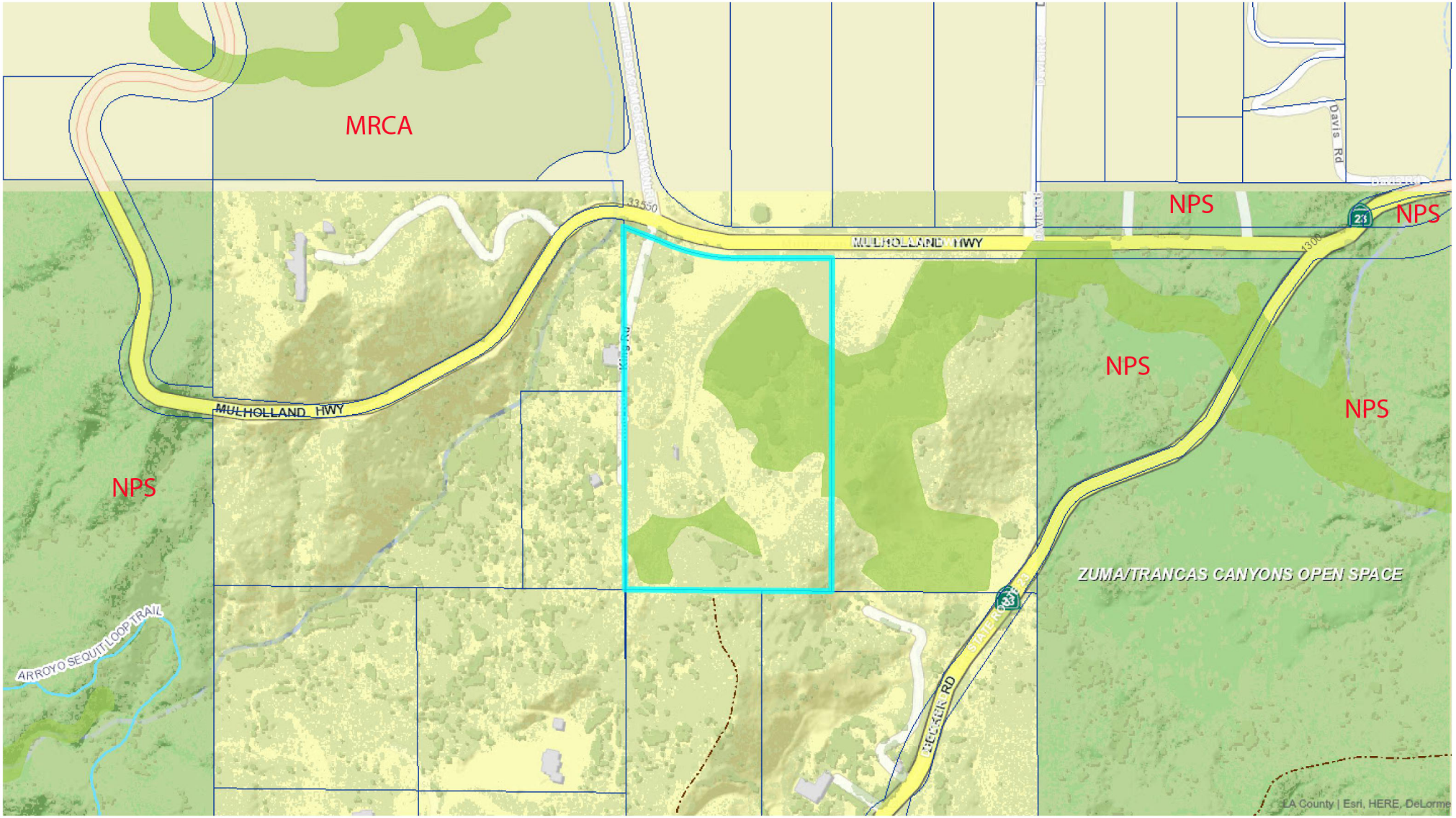

Rollins Rural Inn, APN 4472-009-012

H1, vicinity trails

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0 500
Feet

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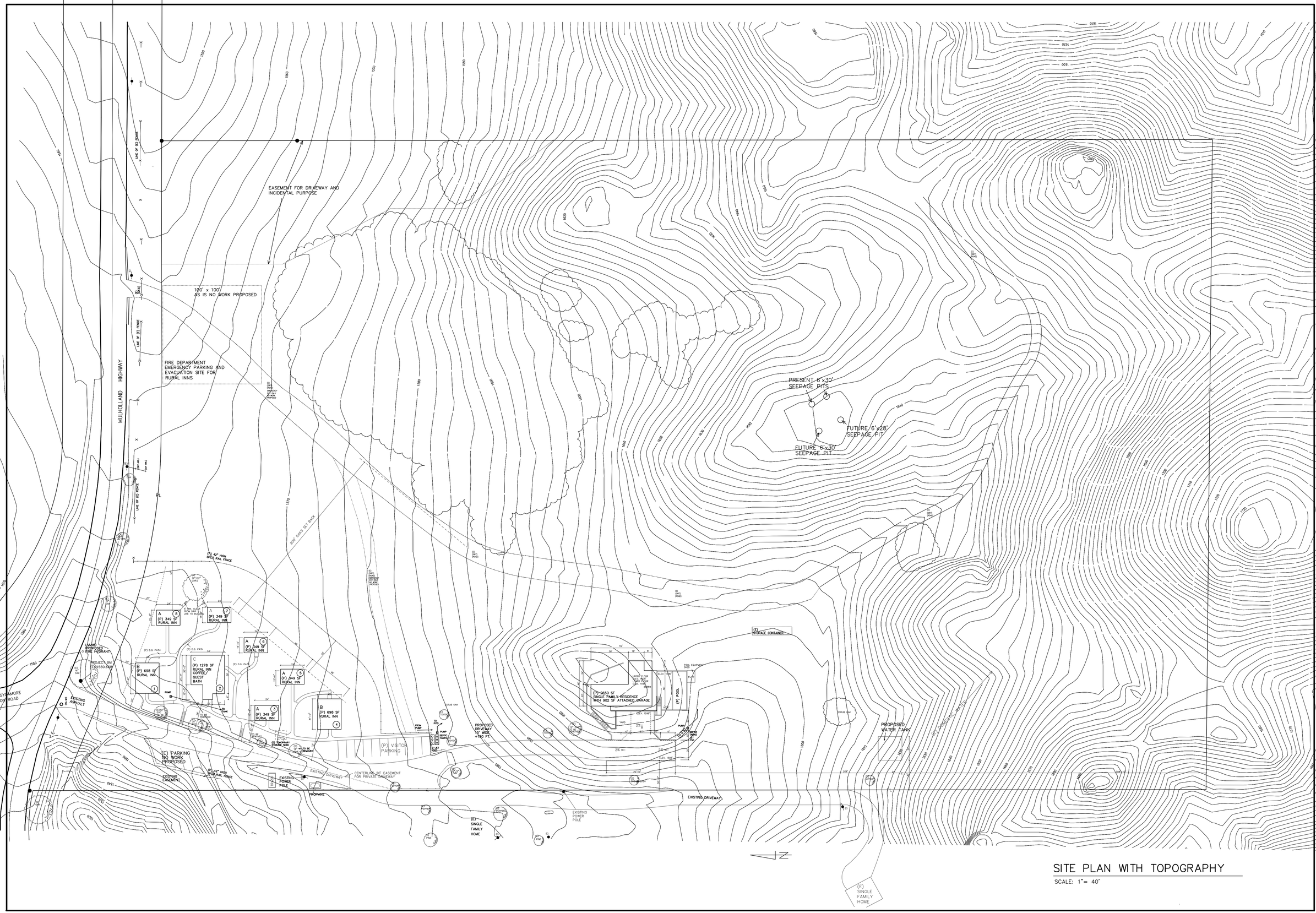


SITE PLAN WITH TOPOGRAPHY

SCALE: 1"= 40'

REV. 3-4-2015
REV. 3-5-2015
REV. 4-17-2015

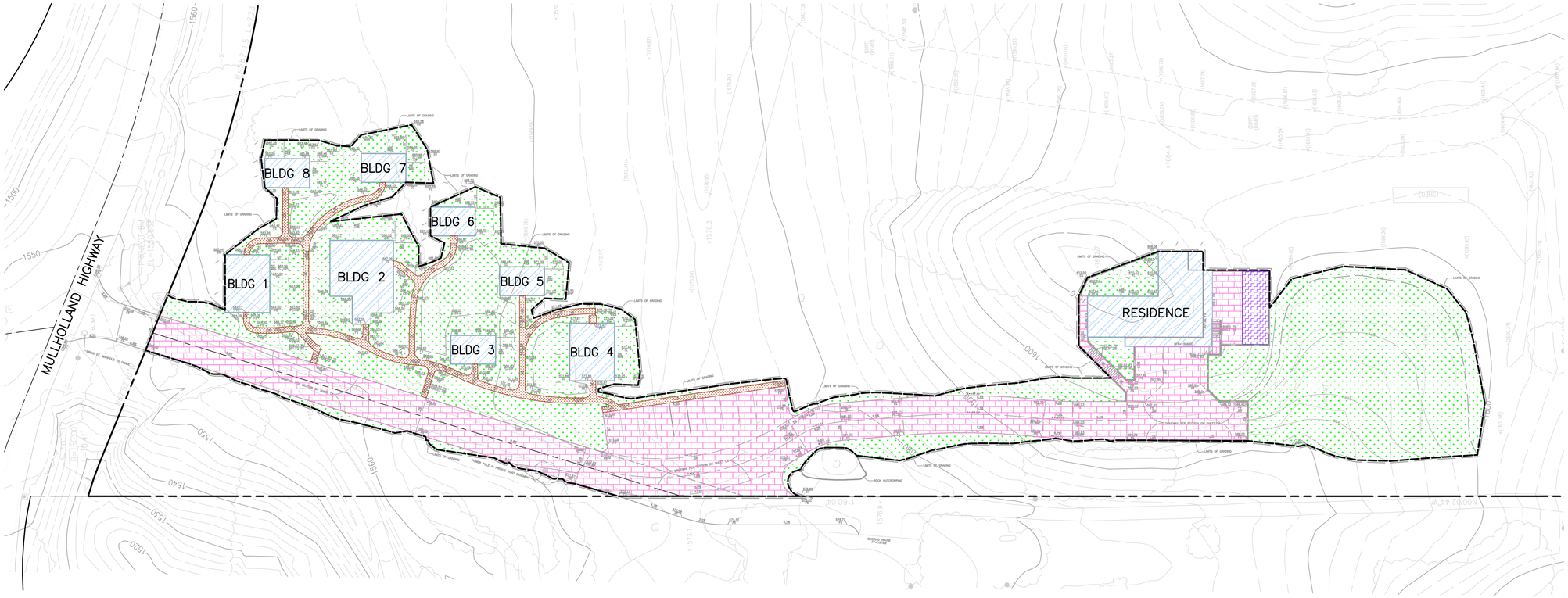
SITE PLAN WITH TOPOGRAPHY

S—CONCEPTS
TEL: (805) 492-7827

EVERETT & DEANNE ROLLINS SINGLE FAMILY HOME
VISITOR SERVING RURAL INNS
33528 MULHOLLAND HWY
MALIBU, CA 90265.
PHONE: 310 457 2048

DATE: 12-22-2014
SCALE: 1"=40'
DRAWN: U.BUERLI
JOB: ROLLINS

SHEET
A—1
OF 7 SHEETS



GRAPHIC SCALE 1"= 30'

0 30 60 90 120

Peak Flow Hydrologic Analysis

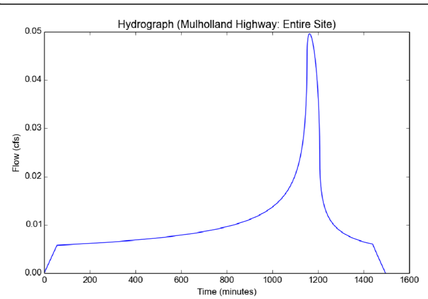
File location: L:/15017/Eng/Final Plots/Erosion Control/HydroCalc.pdf
Version: HydroCalc 0.3.1

Input Parameters

Project Name	Mulholland Highway
Subarea ID	Entire Site
Area (ac)	1.319
Flow Path Length (ft)	700.0
Flow Path Slope (vft/hft)	0.09
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.12
Soil Type	45
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.1917
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.196
Time of Concentration (min)	56.0
Clear Peak Flow Rate (cfs)	0.0496
Burned Peak Flow Rate (cfs)	0.0496
24-Hr Clear Runoff Volume (ac-ft)	0.0214
24-Hr Clear Runoff Volume (cu-ft)	930.7243



LEGEND:

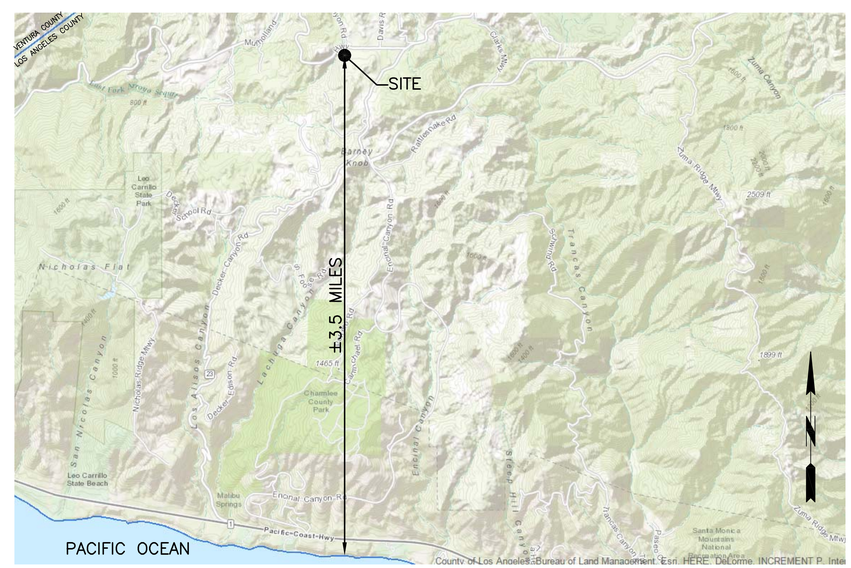
- PERMEABLE PAVER DRIVEWAY (17,275 SF)
- BUILDING ROOF AREA (6,971 SF)
- VEGETATED AREA (30,928 SF)
- DECOMPOSED GRANITE/GRAVEL WALKWAYS (2,247 SF)
- SWIMMING POOL (547 SF)
- LIMITS OF WORK

Required Storm Storage Per Unit			
	AREA	Req. Volume (ft^3)	Req. Volume (gal)
BLDG 1	744	99	743
BLDG 2	1278	171	1,277
BLDG 3	370	49	370
BLDG 4	744	99	743
BLDG 5	370	49	370
BLDG 6	370	49	370
BLDG 7	370	49	370
BLDG 8	372	50	372
RESIDENCE	2353	314	2,351
Total	6971	931	6964

FOR THE PURPOSES OF CALCULATING REQUIRED STORAGE VOLUME TO SATISFY LOS ANGELES COUNTY POST CONSTRUCTION RUNOFF PLAN REQUIREMENTS:

- ROOF AREAS WERE CONSIDERED TO BE IMPERVIOUS
- THE PERMEABLE PAVER DRIVEWAY, THE DECOMPOSED GRANITE/GRAVEL WALKWAYS, AND LANDSCAPE AREAS WERE CONSIDERED TO BE PERVIOUS.

A CISTERN WILL BE BUILT UNDERNEATH EACH BUILDING, AND THE CISTERNS WILL BE SIZED TO CAPTURE A PRORATED AMOUNT OF THE REQUIRED VOLUME, CALCULATED USING HYDROCALC 0.3.1 (SEE LEFT), BASED ON THE ROOF AREA THAT EACH CISTERN WILL BE COLLECTING FROM. THE STORM WATER WILL THEN BE REUSED FOR IRRIGATION PURPOSES. MINIMUM REQUIRED VOLUME FOR EACH BUILDING CAN BE SEEN IN THE TABLE TO THE LEFT.



VICINITY MAP
NOT TO SCALE

FORMA ENGINEERING INC.
10814 Reseda Boulevard, Northridge, CA 91326
Phone: (818) 832-1710-Fax: (818) 832-1740
PREPARED UNDER THE SUPERVISION OF:
WILLIAM M. WHITE, P.E. R.C.E. 62111 DATE

REGISTERED PROFESSIONAL ENGINEER
WILLIAM MICHAEL WHITE
No. 62111
CIVIL
STATE OF CALIFORNIA

PROJECT

33528 MULLHOLLAND HWY
MALIBU, CA 90265

SHEET TITLE

POST-CONSTRUCTION RUNOFF PLAN

ISSUE

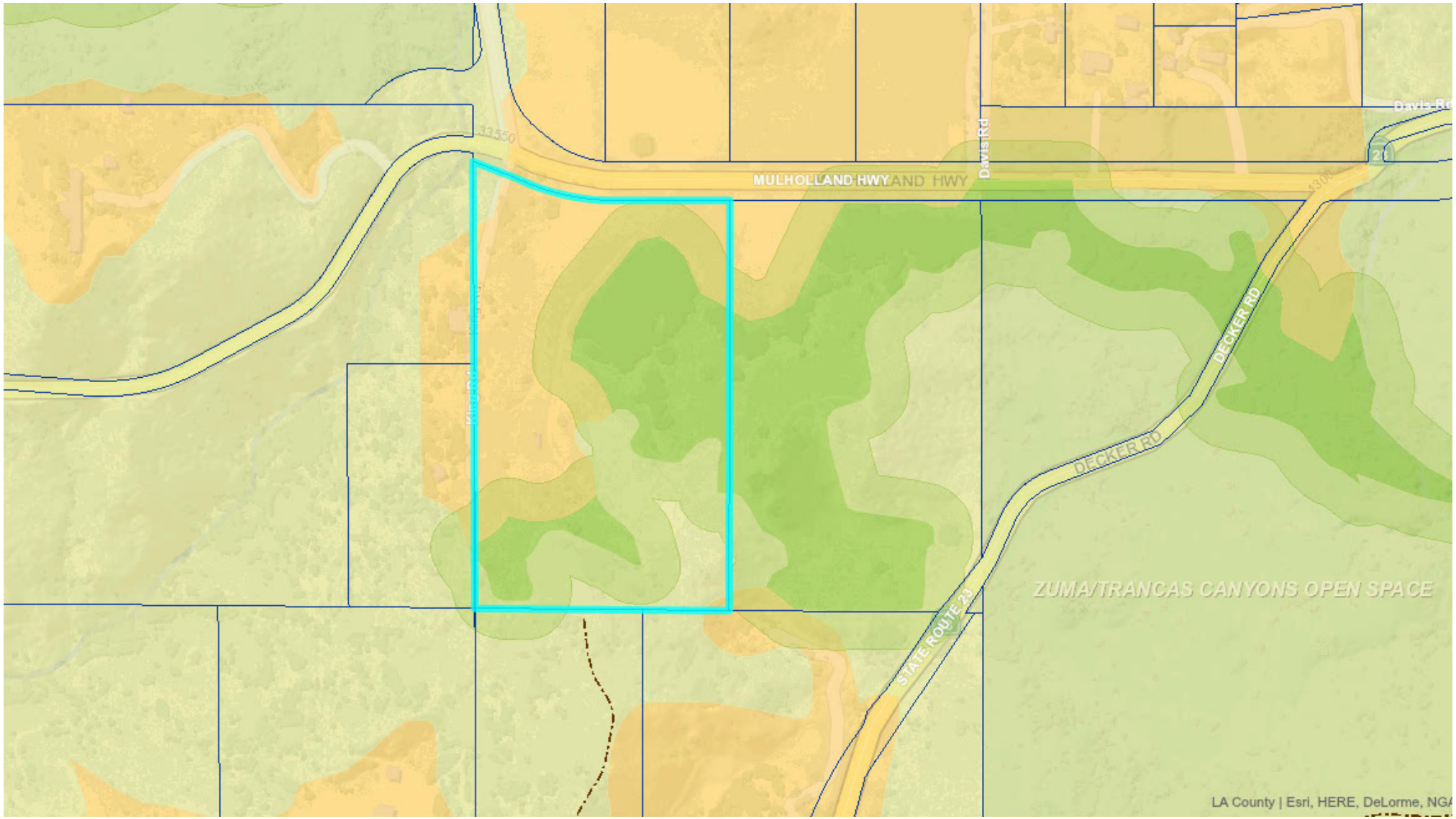
PHASE

County Submittal Package

SCALE AS SHOWN
ORIGIN DATE _____
PLOT DATE 02/26/2016
DRAWN BY: CK
CHECKED BY: MW

SHEET 2 of 2

EC-2



Rollins Rural Inn, 33528 Mulholland Hwy

APN 4472-009-012 - H1,H1buf,H2,H3

Printed: Sep 02, 2015

0 900
Feet

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Rollins, 33528 Mulholland Hwy

APN 4472-009-012

Printed: May 17, 2016

N

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Feet

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Rollins Rural Inn, APN 4472-009-012

R2015-01265, CDP 201500059

Printed: Mar 09, 2016

0 400
Feet

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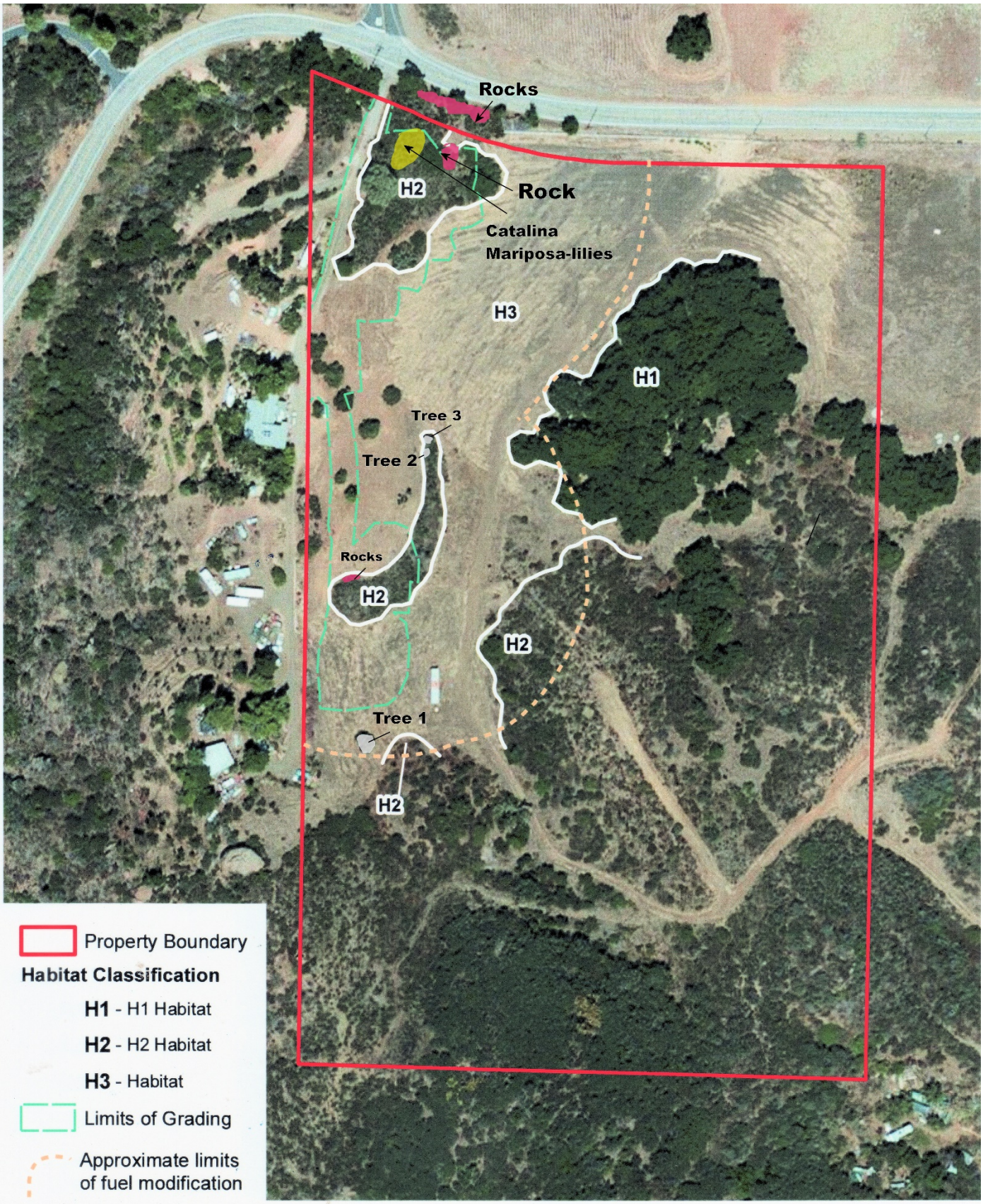
SANTA MONICA MOUNTAINS-HABITAT ALLIANCES
Rollins Rural Inn – APN 4472-009-012, R2015-01265

1bSyc	H1	California Bay-California Sycamore
1bWaCeg	H1	California Bay-California Walnut-Greenbark Ceanothus
1oclA	H1	Coast live-oak alliance
1oclSA	H1	Coast live-oak Superassociation
1oclBca	H1	Coast live-oak – California Bay
1oclWia	H1	Coast live-oak - Arroyo Willow
1os	H1,H3	Scrub Oak
1osA	H3	Scrub oak Alliance
1r	H1	Rock outcrop
1sycOcl	H1	California Sycamore-Coast live-oak
1uOcl	H1,H3	urban Coast Live-oak
1uSycOcl	H1	Urban California Sycamore-Coast Live-oak
1waA	H1	California Walnut Alliance
1wiA	H1	Red Willow-Arroyo Willow Superalliance
2ceChA	H2	Ceanothus spp.-Chamise Superalliance
2ceMhA	H2	Ceanothus spp.-Birchbark Mountain Mahogany Superalliance
2ceb	H2	Bigpod Ceanothus
2cebA	H2	Bigpod Ceanothus Alliance
2cebCh	H2	Bigpod Ceanothus-Chamise
2cebSul	H1,H2	Bigpod Ceanothus-Laurel Sumac
2cebSab	H2high	Bigpod Ceanothus-Black Sage
2ceg	H1,H2	Greenbark Ceanothus
2cegA	H2	Greenbark Ceanothus Alliance
2cegCeb	H2	Greenbark Ceanothus-Bigpod Ceanothus
2ceh	H2-high	Hairyleaf Ceanothus
2cehA	H2-high	Hairyleaf Ceanothus alliance
3ba	H2	Ashy Buckwheat
3bcA	H2	California Buckwheat Alliance
3bcSabSul	H2	California Buckwheat-Black Sage-Laurel Sumac
4mhA	H2	Birchbark Mountain Mahogany Alliance
5ch	H2	Chamise
5chCeb	H2	Chamise-Bigpod Ceanothus
5chSabSul	H2	Chamise-Black Sage-Laurel Sumac
5chBcD	H2	Chamise-California Buckwheat-Deerweed
5chMze	H2	Chamise-Eastwood Manzanita
5chOs	H2	Chamise-Scrub Oak
6d	H2	Deerweed Alliance
6e	H2high	California Encelia Superassociation
6mabCeg	H2	Bush Mallow-Greenbark Ceanothus
6mabSab	H1,H2	Bush Mallow-Black Sage
6mabSap	H2	Bush Mallow-Purple Sage
6mabSul	H2	Bush Mallow-Laurel Sumac
6mfl A	H2high	Bush Monkeyflower Alliance

7sabA	**H2**	**Black Sage Alliance**
7sabSA	**H2**	**Black Sage Superassociation**
7sabSul	**H2**	**Black Sage-Laurel Sumac**
7sabSulSusbA	**H2**	**Black sage-Laurel Sumac-Sugarbush Superassociation**
7sac	**H2**	**California Sagebrush**
7sacSab	**H2**	**California Sagebrush-Black Sage**
7sacSapSA	**H2**	**California Sagebrush-Purple Sage Superassociation**
7sap	**H2**	**Purple Sage**
7sapA	**H2**	**Purple Sage Alliance**
8sul	**H2**	**Laurel Sumac**
8sulBc	**H2**	**Laurel Sumac-California Buckwheat**
8sulBa	**H2high**	**Laurel Sumac-Ashy Buckwheat**
8sulGa	**H2**	**Laurel Sumac-annual Grass-Herb**
8sulSab	**H2**	**Laurel Sumac-Black Sage**
8sulSac	**H2**	**Laurel Sumac-California Sagebrush**
9	**H3**	**Urban, disturbed**
9a	**H3**	**Urban shrub**
9ag	**H3**	**Agriculture**
9c	**H3**	**Cleared land**
9d	**H3**	**Herbaceous, on cleared or graded area, as on a firebreak**
9f	**H1,H2**	**Fennel Alliance**
9ocl	**H3**	**Urban Coast Live-oak**
9t	**H3**	**Other trees**
9v	**H3**	**Sparsely vegetated artificial cuts**
10hA	**H1**	**Herbacous (Native and non-native) Superalliance**
11	**H2**	**Post-fire clearing and regeneration**
12poA	**H2**	**Poison-oak Alliance**



Locations of Sensitive Elements

Rocks with Lichens

Catalina Mariposa-lilies, and Trees

FIGURE

1