

Location 128 Market Street Stateline, NV 89449

STAFF REPORT

Date:	November 2, 2023
То:	TRPA Hearings Officer
From:	TRPA Staff
Subject:	Nelson Land Capability Challenge 5647 Rhodesia Road, Placer County, CA APN: 116-210-024. TRPA File #: LCAP2023-0121

Proposed Action:

Hearings Officer review and approve the proposed Land Capability Challenge.

Staff Recommendation:

Staff recommends the TRPA Hearings Officer approve the land capability challenge on the subject parcel. The challenge changes Class 1c- 12,690 sq. ft. (100 percent of parcel) to Class 6- 12,690 sq. ft. (100 percent of parcel).

Background:

The subject parcel is shown as Class 1c on TRPA Land Capability Overlay Maps (aka Bailey Land Capability maps). The Soil Conservation Service Soil Survey of Tahoe Basin Area, California-Nevada (Rogers, 1974) places the subject parcel in the Sm- Stony colluvial land mapunit. A land capability verification was completed January 16, 2023, and verified the parcel as 1c. The updated Soil Survey of Tahoe Basin Area, California and Nevada (NRCS, 2007) maps this parcel as mapunit 7154- Jorge very cobbly loam, 0 to 15 percent slopes. This parcel has a geomorphic mapping of D1 for Streamcut volcanic flowlands, Toe slope lands (Low hazard lands). The stony colluvial land (Sm) soils are described as occurring in colluvium from granitic, metamorphic, and volcanic rock and from highly fractured volcanic flow. Large cobblestones, stones and boulders cover 50 to 90 percent of the surface, and rock fragments in the subsoil are typically greater than 50 percent of the volume. Depth to bedrock can range from 30 to greater than 60 inches. These soils are somewhat excessively drained. The Jorge soils formed in colluvium and residuum over andesitic bedrock. Jorge soils have a stony sandy loam texture in the surface horizon, with gravelly sandy loam or very gravelly sandy loam subsurface textures. They have greater than 35 percent rock fragments in the particle control section. An argillic horizon is present at 33 inches to a depth of 50 inches. Depth to weathered andesitic bedrock is greater than 60 inches. The Tahoma soils have a stony sandy loam texture in the surface horizon, with gravelly sandy loam, gravelly loam, gravelly clay loam, and clay loam subsurface textures. They have less than 35 percent rock fragments in the particle control section. Argillic horizons begin at 19 inches, and extend to the hard, latite, bedrock which occurs at depths of 43 to greater than 60 inches.

A land capability challenge (LCAP2023-0121) was filed by the owner Jay Nelson on July 5th, 2023. TRPA consultant, Marchel Munnecke visited the site on September 13, 2023. One soil pit was described.

Findings:

One soil pit was excavated by backhoe to 75 inches. The pit was located northeast of the residence, approximately 15 feet north of the driveway. The soil is characterized by a sandy loam surface texture, with gravelly sandy loam, sandy clay loam, and gravelly sandy clay loam, subsurface textures. Hard, weathered bedrock was present at 62 inches. This soil formed in volcanic colluvium over residuum from volcanic mud flows. This soil has less than 35 percent rock fragments in the particle control section, and classifies as Finel-loamy, isotic, frigid, Ultic Haploxeralfs. This soil is very deep, well drained, and is a member of Hydrologic Soil Group B. The vegetation is a white fir and Jeffrey pine forest with huckleberry oak, antelope bitterbrush, creeping snowberry, and greenleaf manzanita occasional in the understory. The forb and grass layers are very sparse, with pine and fir needles covering the surface.

This soil is dissimilar to the Sm soils as mapped on this site in 1974 because it lacks the high cover of large cobblestones, stones and boulders (50 to 90 percent) on the surface and in the subsurface (greater than 50 percent of the volume).

The soil on this parcel is within the range and characteristics of the Tahoma soil as described in the Soil Conservation Service *Soil Survey of Tahoe Basin Area, California-Nevada* (Rogers, 1974). It is very deep, has less than 35% rock fragments, has argillic soil development and fine textures. The Tahoma soil with 7 percent slopes is mapped as JwD, Jorge- Tahoma very stony sandy loam, 2 to 15 percent slopes (Class 6).

The table below summarizes the changes in land capability as concluded by this land capability challenge.

Land Capability District	Area (sq. ft.) 2023 LCV	Area (sq. ft.) 2023 LCC
Class 1c (Sm)	12,690	0
Class 6 (JwD, 2 to 15% slopes)	0	12,690
Total Parcel Area	12,690	12,690

This memorandum was prepared by Senior Planner, Julie Roll. If you have questions on this Hearings Officer item, please contact Julie Roll, 775-589-5247, or email at <u>iroll@trpa.gov</u>.

To submit a written public comment, email <u>publiccomment@trpa.gov</u> with the appropriate agenda item in the subject line. Written comments received by 4 p.m. the day before a scheduled public meeting will be distributed and posted to the TRPA website before the meeting begins. TRPA does not guarantee written comments received after 4 p.m. the day before a meeting will be distributed and posted in time for the meeting.

BAILEY LAND CAPABILITY CHALLENGE FINDINGS

Site Information		
Assessor's Parcel Numbers: (APN)	116-210-024	
TRPA File No. / Submittal Date:	LCAP2021-0121 / 7/5/2023	
Owner or Applicant:	Jay Nelson	
Address:	225 Los Angeles Blvd., San Anselmo, CA 94960	

Environmental Setting		
Bailey Soil Mapping Unit ¹ /	Sm- Stony Colluvial land/ HSG C/ D1- Streamcut	
Hydrologic Soil Group (HSG) / Land	volcanic flowlands; Toe lands (Low hazard lands).	
Class / Geomorphic Hazard Unit		
Soil Parent Material	Colluvium over volcanic mudflow	
Slopes and Aspect	2 to 7 percent; sloping southwest	
Elevation and Datum	6,323 to 6,313 feet, Google Earth	
Rock Outcrops and Surface	This parcel is nearly linear across the slope with gentle	
Configuration	slopes that lack rock outcrop features.	
SEZ and Hydrology Source	There is no SEZ on the parcel.	
Vegetation	The vegetation is a white fir and Jeffrey pine forest with huckleberry oak, antelope bitterbrush, creeping snowberry, and greenleaf manzanita occasional in the understory. The forb and grass layers are very sparse, with pine and fir needles covering the surface.	
Ground Cover Condition	Good (vegetation 55%, duff/mulch 60% cover)	
Site Features	Residence, deck and A/C driveway.	

Field Investigation and Procedures		
Consultant and Address	TRPA Consultant	
	Marchel Munnecke	
	PO Box 1015	
	Twin Bridges, CA 95735	
TRPA Staff Field Dates	September 23, 2023	
SEZ Mapping / NRCS Hydric Soil	No SEZ	
Number of Soil Pits or Auger Holes	1 backhoe pit to 75 inches.	
and Description Depth		
Additional or Repetitive TRPA	NA	
Sample Locations		
Representative Soil Profile	See soil descriptions in Attachment B.	
Descriptions		
Areas Not Examined	Residence, deck, and A/C driveway.	

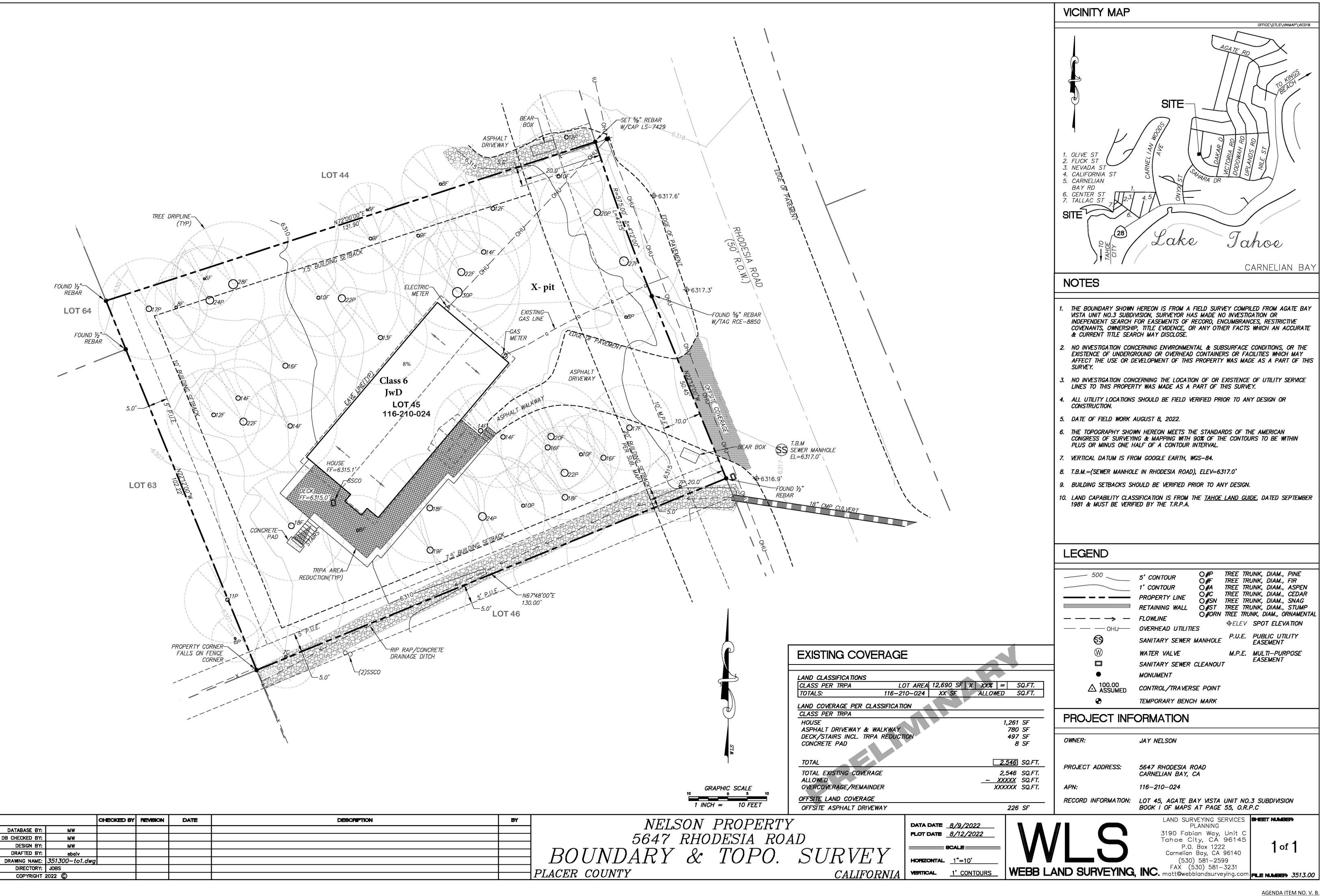
¹ TRPA currently relies upon the <u>Soil Survey of Tahoe Basin, California-Nevada</u> (Rogers and Soil Conservation Service, 1974), which the Bailey Land Capability system is predicated upon.

TRPA Findings		
2006 Soil Survey Map Unit	7154- Jorge very cobbly loam, 0 to 15 percent slopes	
	(Class 6 based on slopes).	
Consultant Soil Mapping	Based on slopes, this parcel is mapped as Class 6- JwD	
Determination and Rationale	2-15 percent slopes.	
	This soil is dissimilar to the Sm soils as mapped on this	
	site in 1974 because it lacks the high cover of large	
	cobblestones, stones and boulders (50 to 90 percent)	
	on the surface and in the subsurface (greater than 50	
	percent of the volume).	
	,	
	The soil on this parcel is within the range and	
	characteristics of the Tahoma soil as described in the	
	Soil Conservation Service Soil Survey of Tahoe Basin	
	Area, California-Nevada (Rogers, 1974). It is very deep,	
	has less than 35% rock fragments, has argillic soil	
	development and fine textures. The Tahoma soil with	
	2 to 7 percent slopes is mapped as JwD, Jorge-	
	Tahoma very stony sandy loam, 2 to 15 percent slopes	
	(Class 6). This parcel is mapped as 7154- Jorge very	
	cobbly loam, 0 to 15 percent slopes in the 2007 Soil	
	Survey.	
Slope Determination	2 to 7 percent slopes.	
TRPA Conclusion(s)	TRPA concurs with consultants' determination and	
	rationale above.	
Applicable Area	See Attachment A.	

Attachments:

- A. Site Plan with Land Capability Delineations
- B. Soil Description
- C. Photographs

Attachment A Site Plan with Land Capability Delineations



Attachment B Soil Description Jay Nelson Land Capability Challenge, November 9, 2023, TRPA Hearing Officers Meeting

5647 Rhodesia Road Carnelian Bay, Placer County, CA 96140 APN 116-210-024, LCAP2023-0121

Soil Profile Description Marchel Munnecke Field Date: 9-13-2023



Pit 116-210-024:

Soil Classification: Fine-Loamy, isotic, frigid Ultic Haploxeralfs (Some assumptions, made due to lack of lab analysis, based on soils mapped in this area in 2007 Soil Survey of the Tahoe Basin Area, California and Nevada.)

Soil Series: Tahoma soil; JwD- Jorge- Tahoma very stony sandy loam, 2 to 15 percent slope mapunit; Land Capability Class 6

Drainage Class: Well Drained

Hydrologic Group: B

Parent Material: Colluvium and residuum from volcanic parent material over volcanic mudflow.Slope: 7 %Aspect: Southwest

Description:

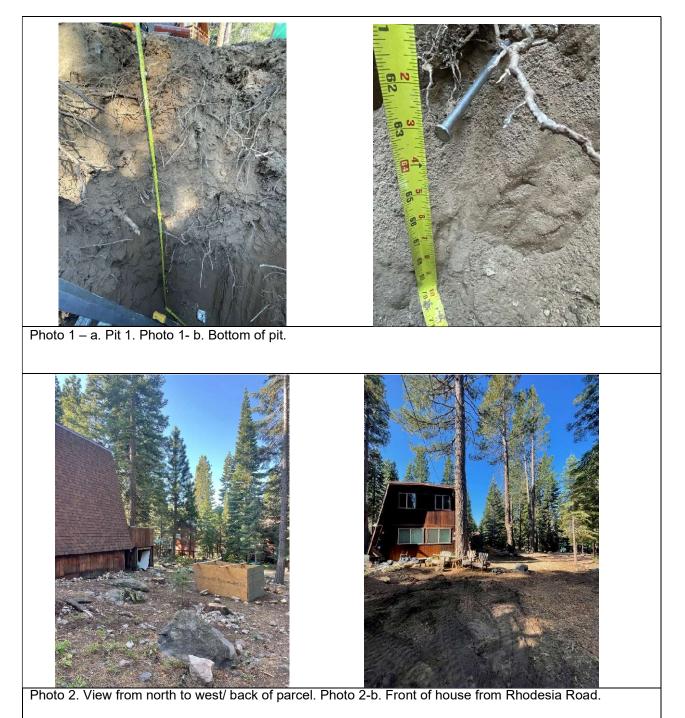
- A1 0 to 2 inches; sandy loam, brown (10YR 4/3), very dark grayish brown (10YR 3/2) moist; moderate fine granular structure; loose, loose, nonsticky and nonplastic; many very fine to very coarse roots; many very fine and fine irregular pores; 10 percent gravels; clear smooth boundary.
- A2 2 to 7 inches; gravelly sandy loam, brown (10YR 4/3), dark brown (7.5YR 3/3) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many fine to medium roots and common very fine and very coarse roots; many very fine and fine irregular pores; 10 percent gravel and 15 percent cobbles; gradual wavy boundary.
- Bw 7 to 24 inches; gravelly sandy loam, yellowish brown (10YR 5/4), brown (10YR 4/3) moist; weak medium subangular blocky structure; soft, very friable, slightly sticky and slightly plastic; many very fine to medium roots; many very fine and fine irregular pores; 15 percent gravel, and 5 percent cobbles; gradual wavy boundary.
- Bt1 24 to 41 inches; sandy clay loam, brown (10YR 5/3), brown (7.5YR 4/3) moist; strong very thick platy structure; slightly hard, friable, moderately sticky and moderately plastic; many very fine to medium roots; common clay films bridging sand grains; many very fine and fine irregular pores; 10 percent gravels; clear wavy boundary.
- Bt2 41 to 62 inches; gravelly sandy clay loam, light brownish gray (10YR 6/2), brown (7.5YR 4/2) moist; strong medium subangular blocky structure; hard, very firm, moderately sticky and moderately plastic; common medium, distinct redox concentrations in the matrix, common fine to medium roots; many clay films on ped faces; common very fine and fine irregular pores; clear wavy boundary.
- CR 62 to 75+ inches; Highly weathered volcanic mud flow. Hard, but with effort, breaks up into clayey gravel sided pieces.
- Note: Bt2 horizon colors described appear to be natural color variation in the weathered parent material.

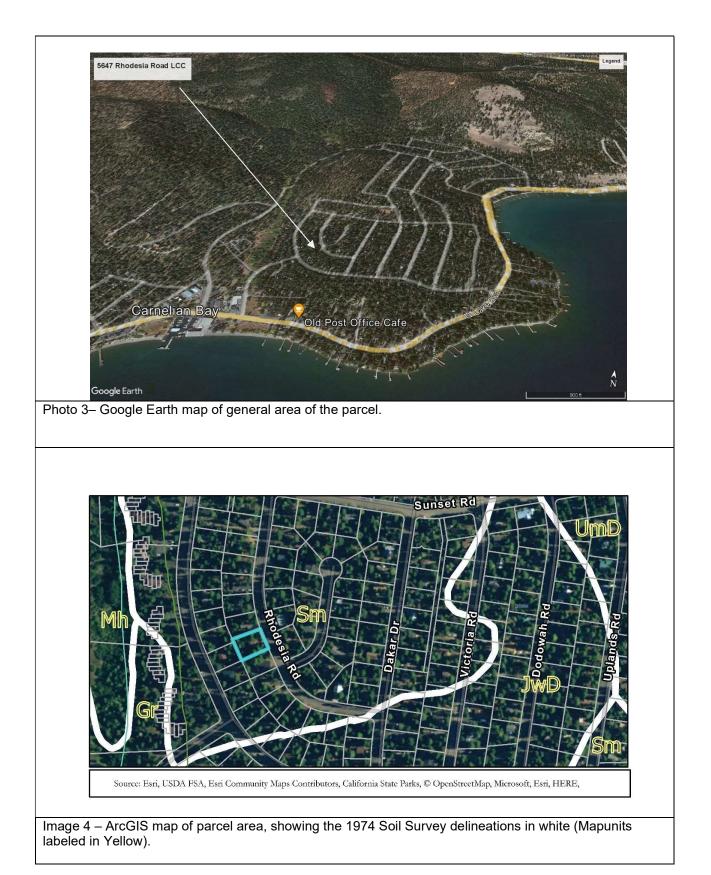
Attachment C Photographs



Mail PO Box 5310 Stateline, NV 89449-5310 Location 128 Market Street Stateline, NV 89449 Contact Phone: 775-588-4547 Fax: 775-588-4527 www.tma.org

PHOTOGRAPHS (Addendum to APN 116-210-024, November 9, 2023, Staff Summary)





AGENDA ITEM NO. V. B.