



Grace Pacific LLC

A SUBSIDIARY OF ALEXANDER & BALDWIN, INC.

GP Roadway Solutions • GPRM Prestress • GLP Asphalt • Maui Paving

November 29, 2018

Mr. Raymond Young
Department of Planning and Permitting, City and County of Honolulu
Community Planning Branch
650 South King Street, 7th Floor
Honolulu, Hawaii 96813

Subject: Special Use Permit (SUP) No. SP73-147/ Conditional Use Permit (CUP) No. 2007/CUP-91, Annual Compliance Report, Makakilo Quarry, Ewa, Oahu, Hawaii, December 21, 2017, Response to Comments

Dear Mr. Young:

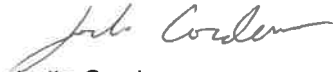
Thank you for your comments delivered via email on August 8, 2018 regarding the Annual Compliance Report for the Makakilo Quarry, dated December 21, 2017. Provided herein are Grace Pacific LLC response to comments (RTCs).

Comment #	Comment	Response	Notes
1	The 2016 annual report had a number of complaints from the Kahiwelo community that was referred to Hawaiiana Management company. One complainant indicated that Hawaiiana did not call back. Other complaints were also referred to Hawaiiana. Can you explain why some complaints were being referred to the Kahiwelo AOA management company? I thought that company's complaint hotline was to for Grace Pacific's intake and response to complaints and was not aware that some were being redirected. For 2017, the complaints were only two, a significant drop from 2016 even while the Kahiwelo community was growing.	Maria Pena, Kahiwelo at Makakilo Board President, requested during the summer of 2016 that homeowner complaints by Kahiwelo residents be directed to Justyna Fic, Senior Management Executive at Hawaiiana Management. On 12/08/2016 Grace Pacific was informed by Maria Pena to expect complaint calls directly and continued with the Grace Pacific complaint hotline (808)671-4722.	Please see Attachment A: Email from Maria Pena 12/08/2016 Re: News Letter.

2	A building permit for a maintenance facility is being reviewed and a prior comment on past building permit review regarding an updated site plan for DPP's review and approval still remains to be submitted. What is the status of the submittal of a revised Site Plan?	Thank you for your patience. The most recent site plan is included with these RTCs.	Please see Attachment B: 2018 Site Plan.
3	The limits of the excavation area (red line) appears to have expanded a bit westward and crossed into the berming and landscaping/finish grade area (see map below). I recollect in our last meeting at DPP that you were contemplating expanding the excavation area to the west since that is where the desired materials lie. The westward encroachment of the excavation area may be subject to modification of the SUP/CUP prior to excavation occurring. Let me know what your plans are in addressing this encroachment.	Thank you for your comment. The grading work is still within the Quarry limits as indicated on Attachment C Figures 1 and 2 Surface Comparison.	Please see Attachment C Figures 1 and 2 Surface Comparison.
4	The eastern berm appears to be still under construction from 2014 and has not been landscaped to minimize erosion and dust. What is your projected schedule to have this berm landscaped? For a while, it appeared that natural vegetation was being established on the eastern berm until construction resumed.	The eastern berm is not currently being constructed. The eastern portion of the Quarry is currently used to store fill material from the quarry that will be utilized for the Kunia Berm in the future.	Please see Attachment D Aerial Photo of Fill Material.
5	The former lower quarry and processing site appears to have no activity for renaturalization. Is the renaturalization phase for this parcel finished?	The former lower quarry and processing site has been renaturalized.	
6	I received a complaint from management at the UH West Oahu regarding the unsightly views of the quarry from their campus. Can you contact me to discuss possible mitigation measures?	Thank you for notifying us of the complaint and the potential mitigation measures that may be helpful per our phone conversation in August 2018. Grace Pacific will take these mitigation measures into consideration.	

If you have any questions, please call me at 808-561-3368.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jodie Cordero".

Jodie Cordero

Environmental Compliance Manager

Copy to:

State of Hawaii Land Use Commission, Department of Business, Economic Development & Tourism

Pike Riegert, President, Grace Pacific LLC

Carl Campagna, Support Services, Grace Pacific LLC

Attachment A

Maria Pena

Hi Boyd, Thank you for your email and for followi...

12/08/2016 01:05:17 PM

From: Maria Pena <carrmaria@hotmail.com>
To: "BNobriga@gracepacific.com" <BNobriga@gracepacific.com>, Justyna Fic <jfic@hmcmtg.com>
Date: 12/08/2016 01:05 PM
Subject: Re: News Letter

Hi Boyd,

Thank you for your email and for following up with me. Unfortunately, we wouldn't be able to mail Grace Pacific a copy of the newsletter directly because we use association funds to mail the newsletter, which can only be sent to homeowners, however, we post all of our newsletters to the community website which I am providing the link to below. In addition, I would be happy to email you the newsletter directly if that is a suitable alternative to you?

Aside from our newsletter, homeowners can receive updates through our website, which are posted periodically as needed by me. So if there is ever any information you would like to communicate with homeowners you are welcome to contact Justyna Fic or myself and we will distribute the information immediately. Additionally, Justyna Fic is the person who fields questions/concerns/complaints from homeowners as our Executive Manager for the Kahiwelo Association. She is the only person that communicates with homeowners directly if they contact her. Justyna does not discuss Grace Pacific or its operations unless a homeowner is contacting her regarding Grace Pacific directly and in that case she is highly knowledgeable and our subject matter expert suited to answering their questions in a manner mindful of our discussions and association covenants. We did post a copy of the summary you emailed me to our website, which can be viewed by clicking on the "stay connected" tab at the top of the page to our website (please see link below). Additionally, I am attaching a second link to the online copy of our last newsletter, which was mailed at the end of October, and has an article dedicated to Grace Pacific. Aside from this, there has been no other information distributed to homeowners.

Homeowners have not been recently reminded of not occupying or growing plants outside of the areas on their property, however, it is in their governing documents. I will make an announcement on our website immediately addressing the issue. If your crew finds homeowners in violation of our governing documents, the association can send them a violation letter if you do not feel comfortable removing/discarding the items. We would need a picture and the address of the home that is in violation and our covenants enforcement specialist would take it from there. This is how we have addressed instances like this with other landowners adjoining homeowner property. As far as the access area goes, Justyna would need a map with the proposed area you would like access to so that we can research it. Do you have that information?

Lastly, shortly following all the complaints that began this summer, I had requested that homeowner complaints by Kahiwelo residents be directed to Justyna Fic. The logic behind this request was to have a central person (in this case Justyna Fic) handling complaints and collecting information regarding concerns in preparation of our meeting back in October. Since then, our association has come to the conclusion that Grace Pacific is in compliance of all regulations and homeowners have a clause in their deed regarding Grace Pacific and its operations, therefore, our association has fulfilled its obligation in thoroughly researching the complaints to their conclusion. Consequently, we have recommended that homeowners contact Grace Pacific directly once again. Although Justyna Fic is capable and willing to continue receiving complaints/concerns (that is her job), we no longer feel it is necessary to direct homeowners to the association for already addressed Grace Pacific complaints because there is nothing further our association can do on their behalf. In

addition, our announcement through the newsletter to homeowners should subdue all of the previous complaints we were all receiving. Can you please instruct your staff revert to your original procedure for handling complaints? Recently a homeowner contacted our association complaining that their concerns were being subverted because they were being prompted to contact the association rather than addressing their concern with Grace Pacific directly. I would appreciate your cooperation.

Sincerely,

Maria

Community Website Link:

<http://www.hmcmgt.com/page/16104~194819/Welcome-to-Your-Communitys-Web-Site>

November Community Newsletter:

http://www.hmcmgt.com/ResourceCenter/DocViewer/16104?doc_filename=2646%20kahiwelo%20winter%20newsletter%20web.pdf&doc_id=1922926&print=1



KAHIWELO at MAKAKILO

NEWSLETTER

WINTER EDITION

NOVEMBER 2016



Aloha! Welcome to the fourth edition of the Kahiwele at Makakilo neighborhood newsletter. We hope that you will find our information to be informative and helpful.

Message from the President:

Aloha Homeowners,

The past few months have been extremely busy for the board members of Kahiwele while we investigate and work to resolve homeowners concerns. In this edition of our newsletter, I think you will find a considerable amount of information regarding our ongoing efforts. With so many pending issues, we refrained from issuing our newsletter until we could provide some concrete solutions and answers to ongoing issues.

What's more, the association is utilizing the community website on a consistent basis to keep our residents informed.

If there is anything we can do to resolve a grievance or concern, please contact

Hawaiiana Management and we will be happy to look into the situation.

I would like to take this opportunity to apologize to our residents for the late notice and cancellation of our last Meet and Greet event. An unforeseen emergency came up in which the event had to be cancelled with very short notice and since our association does not have an email distribution list, we utilized the only quick method of communication we have available, our website.

We ask all homeowners to make it a habit of visiting our website at least once a month. Our association is using the website as an important tool for communication between homeowners, Hawaiiana, and the Board members. Announcements, notifications, cancellations, etc., will be posted on our website so please take the time to familiarize yourselves with the site. If you have any suggestions on how we can improve the page, we welcome your suggestions. Thank you for your understanding and support.

SAFE & SECURE

Homeowners of Kahiwele at Makakilo are very fortunate to live in such a beautiful, safe, and picturesque neighborhood. The safety and security of our residents and their property is very important. Consequently, we ask all residents to please be conscientious and maintain a watchful eye in our neighborhood. Be sure to secure all your belongings at all times. Don't leave your garage doors open or unattended whenever possible. Lock up and/or secure bicycles, lawn supplies, and your vehicles.

Please don't be another statistic...secure your belongings. For your protection, make sure to register your valuables so that if you are a victim of a crime and your property is recovered it can be linked back to you and used to prosecute the perpetrator.

If you witness or suspect ANY suspicious activity in your area, don't hesitate to contact the Kapolei police department at 808-723-8400. Suspicious activity CAN (and must)

be reported to the police. Let's watch out for one another and stay vigilant at all times.

NEIGHBORHOOD WATCH PROGRAM

For the benefit of our neighborhood, Kahiwelo has commenced monthly meetings for the Neighborhood Watch Program. Meetings will be held the 1st Monday of every month at 6pm at the Kahiwelo Community Park. The meetings are presided over by Officer Nakagawa of the Honolulu Police Department.



Officer Nakagawa provides crime statistics for our area and serves as a conduit of communication between residents and the police department. He will be happy to assist and address safety and crime concerns for our neighborhood to the best of his ability. We encourage residents to take advantage of this opportunity. If attendance is low or nonexistent, future meetings will be cancelled. Officer Nakagawa's time is very valuable and we do not want to impose on his time if the interest does not exist. For your convenience, we have listed the dates of the meetings on the Kahiwelo at Makakilo community calendar on our website. Scroll over the "stay connected" tab and click on "community calendar". If a meeting needs to be cancelled or rescheduled for some unforeseen reason, a notice will be posted on our website under "community news & announcements".

KAHIWELO WEBSITE

Did you know Kahiwelo at Makakilo has a website? To access, please go to <http://hmcmtg.com/16104>. It is updated on a consistent basis and a great source of accurate information. In addition to important association information, owners may access design review applications, a copy of our covenants, as well as view downloaded maps of the common areas to name a few. Everything you need is right at your fingertips!



Although NextDoor and Facebook are a means of communication amongst homeowners, they are not official or authorized means of communication for our association resulting in potentially

inaccurate information being disseminated. For concise and accurate information, please contact Justyna Fic at Hawaiiana Management Company. Her contact information is listed under the "contacts" tab

Utility and Abandoned Vehicles

Please be advised that Commercial Vehicles are not allowed to be parked anywhere within Kahiwelo, not even in your driveway. Hawaiiana Management and the Board of Directors would like to remind residents of the parking policy in our covenants. Page 15, article 5, section 2 outlines these rules. Please ensure you are in compliance!



Additionally, vehicles that sit on the street for an extended period of time are considered abandoned vehicles and will be towed. Please park your unused vehicles and utility vehicles in your garage or driveway to avoid being towed. Gino's towing service is contracted by the Home Owner's Association to enforce our covenants rules and their sole purpose is for enforcement when residents are not following the rules. They are NOT paid by our Home Owner's Association for their services nor does the Home Owners Association profit from towing in any way. We urge residents to familiarize themselves with the parking rules in Kahiwelo to ensure their vehicle is not towed. Ample warning has been provided to homeowners since last year in June; therefore, towing enforcement is in effect.

FERAL CATS

Most folks are kind, compassionate people, and these are great qualities! Unfortunately, feeding feral cats seems to cause more harm than help. Understandably, animal lovers want feral cats to have a reliable food source, but if you become that source by leaving cat food outside, you will be attracting even more problems. Please do not feed feral cats.



NO SOLICITATION SIGNS!

The Board of Directors has designed a "No Solicitation" sign that is approved for your use.



KAHIWELO
at MAKAKILO

NO SOLICITATION
NO TRESPASSING
BE ADVISED

“No Solicitation” signs shall be uniform at eleven inches by seventeen inches, metal (0.063 thick), with round corners and placed on a picket. The sign shall read:

No Solicitation No Trespassing Beyond this Point

Be Advised

Entrance beyond this point will be considered Trespass under HRS 708-815 of the Hawaii State Statutes. Any unauthorized person(s) entering this PRIVATE PROPERTY without an invitation or in an Official Federal, State, or City & County capacity will be subject to prosecution. This area may be monitored by security Cameras. HRS 708-815 “Simple Trespass” is a Violation under Hawaii State Law.

The sign can be purchase from One Day Signs and Graphics for \$38.00.

No fee will be charged for the design review application, provided the owner follows current guidelines for the type of signage permitted and submits plans for approval prior to installing a signage. Each owner is allowed ONE sign to be displayed in the owner’s yard.

It has always been the policy of the Kahiwelo at Makakilo Association that signs are not permitted in front of homes. The creation of these signs were our attempt at balancing the needs of our homeowners with the regulations that are set forth in our covenants. Unauthorized signs are an infraction of our covenants and are strictly prohibited. The homeowners association does not profit from the new signs. Our goal in creating the signs was to provide an alternative to homeowners, who are affected by unwelcomed visitors and solicitors to their homes with the existing rules of our association.

PROHIBITED VEHICLES

Prohibited Vehicles shall not be parked, stored, or kept in any parking or other areas in the Community. Section 5.2 (b) in Kahiwelo at Makakilo Declaration defines prohibited vehicles.

“*Prohibited Vehicles*”, means, recreational vehicles (e.g., motor homes, travel trailers, camper vans, boats, 4-wheel all terrain vehicles, dune buggies, etc.) commercial type vehicles



(e.g., any vehicle with a commercial license plate, stake bed trucks, tank truck, dump trucks, step vans, concrete trucks, trucks with any exterior commercial advertisement, or other similar vehicles, but excluding tow axle pick-up trucks), trailers, inoperable vehicles or parts of vehicles, aircraft.

UPDATE ON GRACE PACIFIC

This past summer, we received several complaints from homeowners regarding dust clouds that were emerging from the quarry adjacent to Kahiwelo, which is owned by Grace Pacific, LLC. The Kahiwelo Board of Directors began an in depth evaluation of the situation, and would like to update our homeowners.

Our effort in resolving the complaints regarding the quarry were two fold. First, we engaged legal counsel to inquire what options were available to the association and homeowners regarding the quarry. Second, we scheduled a meeting with Grace Pacific to speak with them directly about homeowner concerns and where we could find common ground to work together in resolving the grievances. After a comprehensive examination of the matter, here is where the association stands.

There are requirements to minimize dust emissions from the quarry, and



the owners and residents can ask Grace Pacific to follow these requirements. Specifically, the Hawaii Department of Health (“DOH”) has requirements for “fugitive dust.” which can be viewed on the Kahiwelo website. Essentially, the DOH regulations define “fugitive dust” as any “emission of solid airborne particulate matter” other than smoke, so the dust from the quarry is considered “fugitive dust” under the DOH regulations. The DOH regulations: (1) require anyone to take “reasonable precautions” to prevent the emission of fugitive dust, and (2) prohibit anyone from allowing “visible fugitive dust” to enter neighboring property (Section 11-60.1-33 of the Hawaii Administrative Rules can be viewed on the Kahiwelo website). “Reasonable precautions” include the use of water or suitable chemicals to control fugitive dust. Some residents reported that Grace Pacific has been using water trucks at times, but not sufficiently to prevent dust from entering their property. Therefore, Grace Pacific may be in violation of the DOH rules by allowing the dust to escape from its property and by taking insufficient precautions to control the dust, consequently, our next action was to speak with the Clean Air Branch of the DOH to explain the residents’ concerns.

After an extensive discussion with the DOH, we were explained that the dust is probably at its worst at midday because Grace Pacific needs to dynamite the hill to extract the rocks. According to

DOH, Grace Pacific tries to pre-wet the area, but they have to stop using water once they put the charges down. DOH visited Grace Pacific on two separate occasions to investigate the complaints and both times they were adhering to the requirements set to control the dust, thus there was nothing further they could do.

In mid-October, we met with several representatives with Grace Pacific to discuss our findings and mutual ground regarding homeowner concerns. They explained that they have been complying with DOH regulations and will continue to do so. Moreover, they will ensure water trucks are clearly visible. Lastly, Grace Pacific agreed to keep construction equipment out of sight whenever possible.

Regrettably, during the course of our research, it was discovered that the governing documents for the planned community contain specific disclaimers regarding the dust from the quarry. Owners have little to no recourse against the developer or Grace Pacific because the disclaimer was included in the deed when the community was built and homeowners purchased their homes. Essentially, the developer can claim that the owners should have known about the dust problem before buying into the community and that they assumed responsibility for the problem when they purchased their property, thus there is nothing further the association can do for homeowners. Residents and homeowners are welcome to contact the Department of Health (DOH) directly to file complaints at 586-4200 or speak with Justyna Fic at Hawaiiana Management, however, the association has done all it can in resolving this situation to the best of its ability.

MAIL CLUSTER BOX UNITS

We would like to take this opportunity to assure homeowners that the Kahiwelo board of directors has been in constant communication with the developer D.R. Horton regarding the mailbox cluster units (CBU). Unfortunately, the approval process for the mailbox cluster is a three part process and is still under review by the City and County. We are working with the developer very closely on this matter; however, the process is extremely complicated, tedious, and lengthy. The board members of Kahiwelo share in the frustration of the homeowners since we are all impacted by the mailbox cluster and will continue to provide updates as we receive them. We apologize for the inconvenience and ask for your continued patience as we work toward beneficial outcome.

TRAFFIC ACCIDENTS

There has been a sudden increase in vehicle accidents at the corner of Kulihi and Welo Street over the course of the past few months. We would like to take this opportunity to remind our homeowners, to please slow down and follow traffic safety signs. Although it has been suggested that the main cause of accidents are due to the mailbox cluster, upon further review the accidents were attributed to driver negligence. The speed limit throughout Kahiwelo is 25 miles per hour. Please maintain a safe and legal speed while driving in our neighborhood. In addition, there is a stop sign at the end of Welo Street that is not always adhered to. We understand that the stop sign is set back from the intersection, which may make it difficult for drivers to view oncoming traffic. If this is the case, please inch forward slowly and safely to view whether oncoming traffic is present before entering onto Kulihi Street. The majority of the accidents in Kahiwelo can be averted by driving cautiously while in our neighborhood. The developer, D.R. Horton, installed traffic safety signs in both directions of Kulihi Street asking drivers to slow down. In addition, the board of directors authorized landscaping crews to trim down all weeds and overgrowing vegetation on Kulihi Street to aide drivers at the stop sign on Welo Street. Lastly, the Department of Transportation Services (DTS) will be observing traffic patterns to determine what actions, if any, may need to be taken at this intersection to improve visibility and safety for our residents. We take your safety very seriously and ask everyone to heed traffic safety laws and signs while in Kahiwelo. Drive with aloha.



UPDATE ON ILLEGAL

U-TURNS ON KULIHI STREET

The City Dept of Transportation Services (DTS) has conducted their on-site observations of the traffic patterns at the Makakilo Drive/Kulihi St. intersection.



They are recommending installing a U-turn sign on Makakilo Drive that will allow cars driving up Makakilo Drive from lower Kapolei to make a legal U-turn at this intersection. They believe this will alleviate vehicles entering Kulihi Street and then making an illegal U-turn in the Kahiwelo community. Unfortunately, the installation of the U-turn sign may take up to a year to

install nonetheless this is progress for our community and a welcomed announcement.

UPDATE ON LANDSCAPING WORK ON GRACE PACIFIC PROPERTY

In mid-October, board members for Kahiwelo met with Grace Pacific regarding the firebreak for our community. As we explained in our past newsletter, there is an easement that exists between Kahiwelo and Grace Pacific so that no homeowner immediately abuts Grace Pacific property.

In some areas the easement, which belongs to our association, is different widths throughout our neighborhood, thus Grace Pacific will be assisting our efforts in creating a larger firebreak for our neighborhood. There will be landscaping crews and trucks working in the area cutting down vegetation and treating weeds to avoid overgrowth and provide some level of protection from brushfires. If you have any questions regarding our ongoing efforts, please contact Hawaiiana.

MEET & GREET

Our next Meet & Greet has been scheduled at Kahiwelo Park on Saturday, November 19, 2016 at 9:00 a.m. Please take this opportunity to meet the neighbors in our

meet+greet



community and to speak with

Board

Members.

EVERYONE is encouraged to

attend. We care and want to hear from you! Families are welcome and refreshments will be provided.

** There will be limited parking at the park due to a soccer practice. Please plan accordingly. The Meet and Greet will be to the right of the basketball courts as you walk/drive into the parking lot.**

Board Members

Kahiwelo at Makakilo has a three-member Board as follows:

Board President – Maria Pena

Vice President – Kenneth Oshiro

Secretary/Treasurer– Susannah Chung

Please remember that Board Members serve as volunteers for the good of the Community and without compensation! Any concerns should be addressed in writing to Justyna Fic of Hawaiiana Management Company.

**The Board of Directors
and
Hawaiiana Management would
like to wish everyone living at
Kahiwelo at Makakilo
a very
HAPPY HOLIDAY SEASON!**



IMPORTANT CONTACT NUMBERS

Alan Blades Design Review Specialist at Hawaiiana Management at 808-593-6829 or alanb@hmcmt.com.

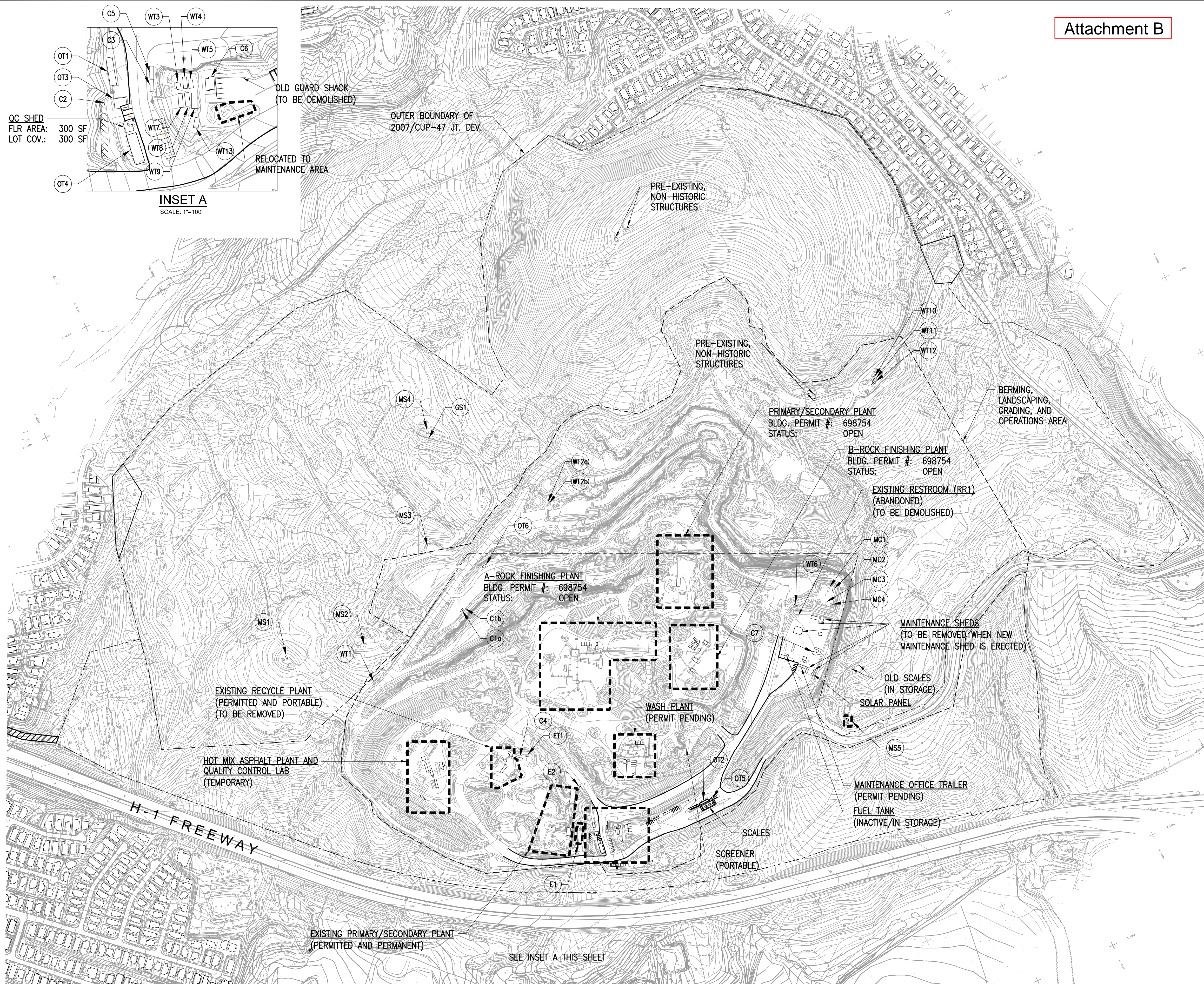
Justyna Fic- Senior Management Executive at Hawaiiana Management at 808-593-6835 or jfic@hmcmt.com.

Katrina Puzon- Project Accountant at Hawaiiana Management at 808-593-6349 or Katrina@hmcmt.com.

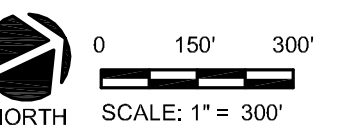
Kahiwelo website:
<http://hmcmt.com/16104>

Gino's Towing at 808-306-3641.

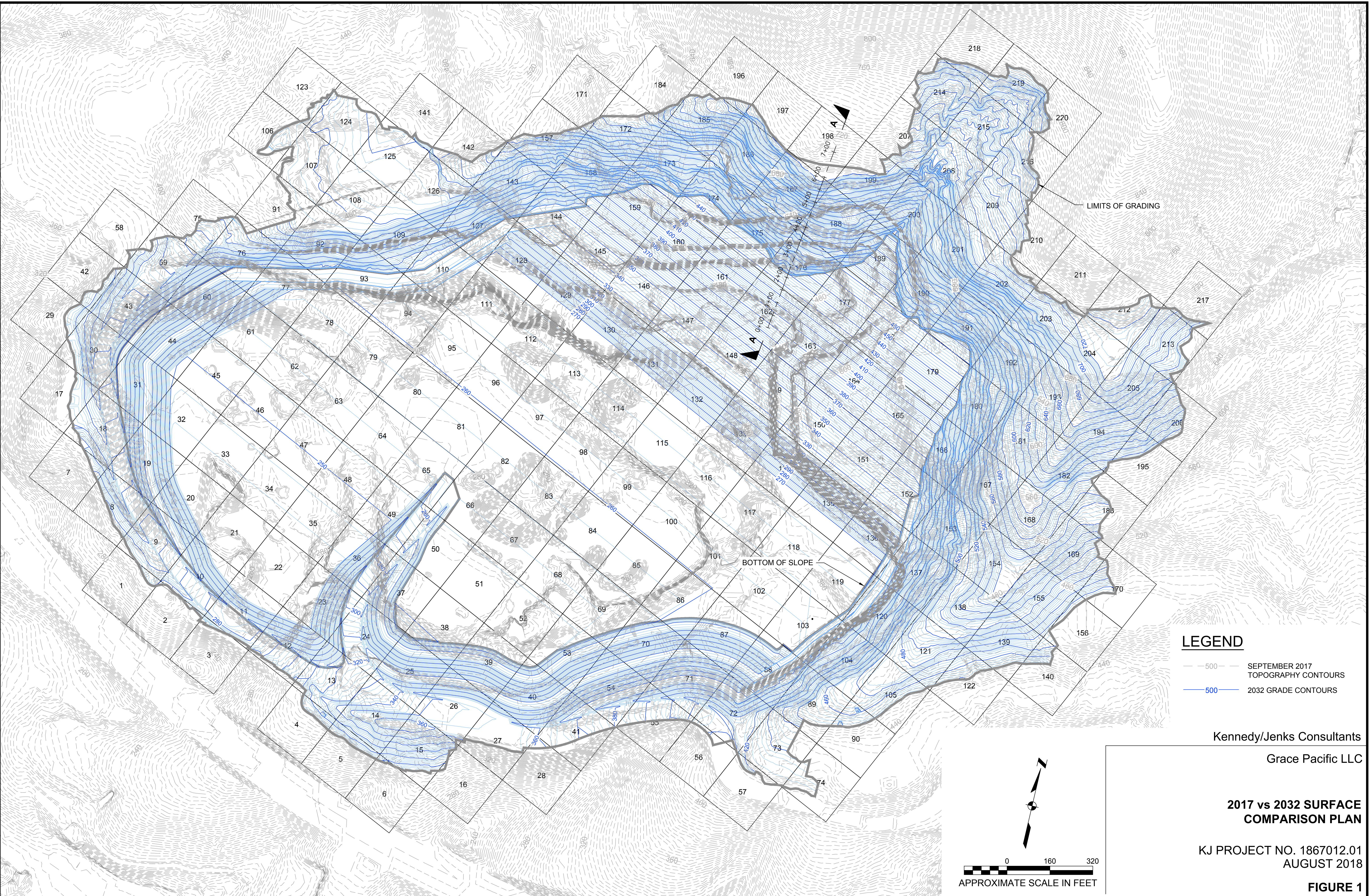
Attachment B



	STATUS	DESCRIPTION	FLOOR AREA (FT²)	LOT COVERAGE (FT²)	BLDG. PERMIT #
MS1	EXISTING	MONITORING STATION	0	159	N/A
MS2	EXISTING	MONITORING STATION	0	268	N/A
MS3	EXISTING	MONITORING STATION	0	268	N/A
MS4	EXISTING	MONITORING STATION	0	258	N/A
MS5	EXISTING	MONITORING STATION	0	177	N/A
OT1	EXISTING	OFFICE TRAILER	720	720	755929
OT2	EXISTING	OFFICE TRAILER	675	675	PENDING
OT3	EXISTING	OFFICE TRAILER	504	504	755925
OT4	EXISTING	OFFICE TRAILER	1264	1264	755934
OT5	EXISTING	OFFICE TRAILER	429	429	PENDING
OT6	EXISTING	OFFICE TRAILER	0	0	N/A
C1a	EXISTING	CONTAINER	194	194	N/A
C1b	EXISTING	CONTAINER	223	223	N/A
C2	EXISTING	CONTAINER	74	74	N/A
C3	EXISTING	CONTAINER	180	180	N/A
C4	EXISTING	CONTAINER	558	558	N/A
C5	EXISTING	CONTAINER	200	200	N/A
C6	EXISTING	CONTAINER	413	413	N/A
C7	EXISTING	CONTAINER	317	317	N/A
WT1	EXISTING	WATER TANK	0	348	N/A
WT2a	EXISTING	WATER TANK	0	152	N/A
WT2b	EXISTING	WATER TANK	0	152	N/A
WT3	EXISTING	WATER TANK	0	126	N/A
WT4	EXISTING	WATER TANK	0	188	N/A
WT5	EXISTING	WATER TANK	0	153	N/A
WT6	EXISTING	WATER TANK	0	124	N/A
WT7	EXISTING	WATER TANK	0	245	N/A
WT8	EXISTING	WATER TANK	0	245	N/A
WT9	EXISTING	WATER TANK	0	382	N/A
WT10	EXISTING	WATER TANK	0	335	N/A
WT11	EXISTING	WATER TANK	0	262	N/A
WT12	EXISTING	WATER TANK	0	227	N/A
WT13	EXISTING	WATER TANK	0	0	N/A
GS1	EXISTING	GUARD SHACK	84	84	2012/IBP01359
FT1	EXISTING	FUEL TANK	0	125	N/A
MC1	EXISTING	MAGAZINE CONTAINER	192	192	N/A
MC2	EXISTING	MAGAZINE CONTAINER	178	178	N/A
MC3	EXISTING	MAGAZINE CONTAINER	127	127	N/A
MC4	EXISTING	MAGAZINE CONTAINER	94	94	N/A
E1	EXISTING	EQUIPMENT	0	0	N/A
E2	EXISTING	EQUIPMENT	0	0	N/A



M:\18\1867012.01 GP - Task Order 1 Quarry Reserve\X-1867012_01 2017-2032.dwg 8/22/2018 1:56 PM CLARISSA DEOCARES



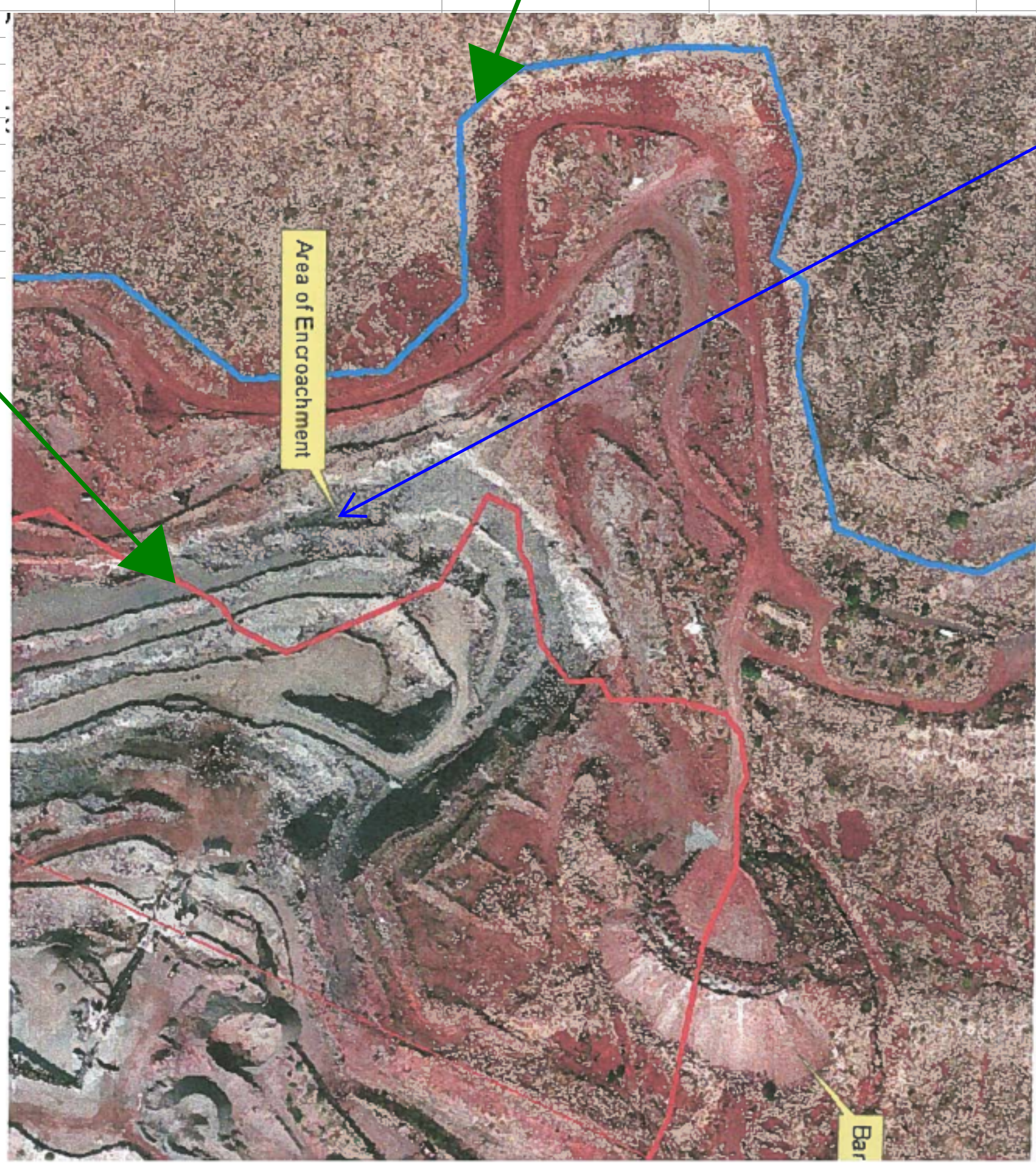
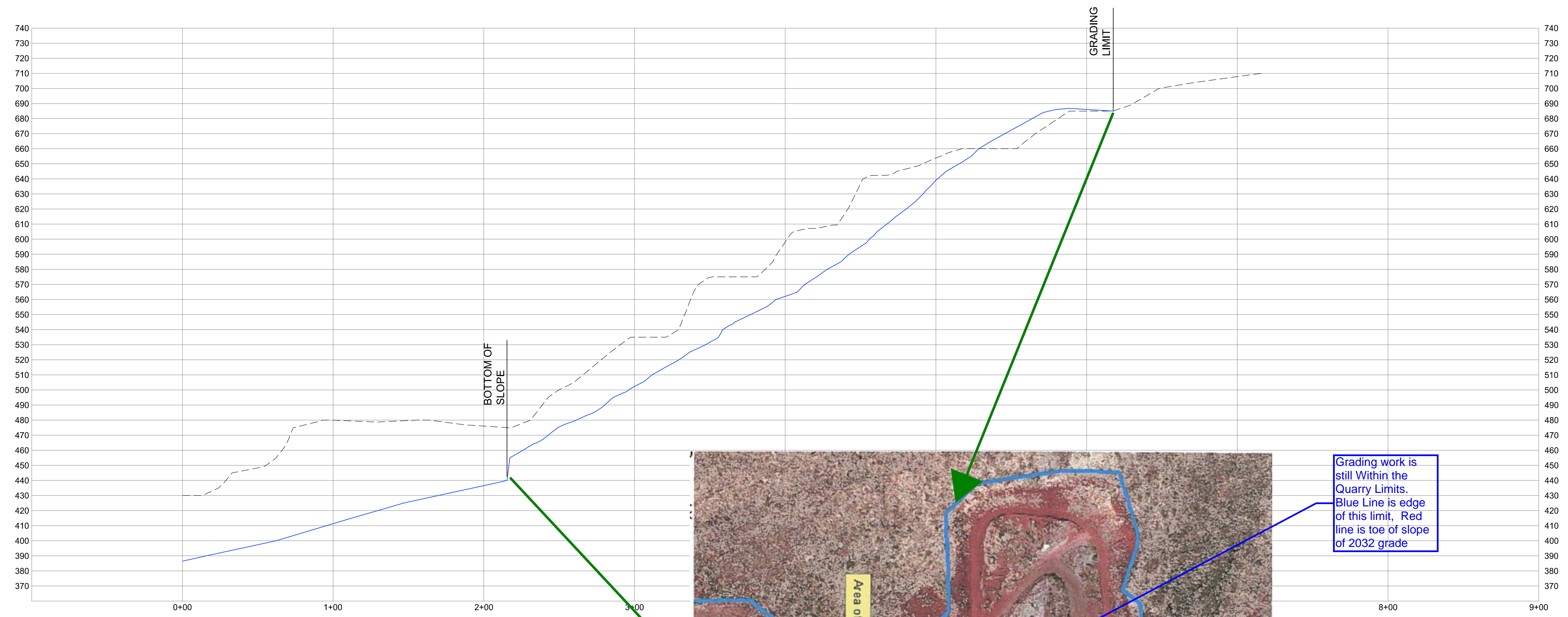
LEGEND
— 500 — SEPTEMBER 2017 TOPOGRAPHY CONTOURS
— 500 — 2032 GRADE CONTOURS

Kennedy/Jenks Consultants
Grace Pacific LLC

**2017 vs 2032 SURFACE
COMPARISON PLAN**

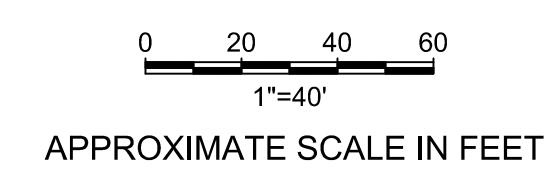
KJ PROJECT NO. 1867012.01
AUGUST 2018

FIGURE 1



LEGEND

- SEPTEMBER 2017 TOPOGRAPHY CONTOURS
- 2032 GRADE CONTOURS



Kennedy/Jenks Consultants

Grace Pacific LLC

**2017 vs 2032 SURFACE COMPARISON
SECTION A - A**

KJ PROJECT NO. 1867012.01
AUGUST 2018

FIGURE 2

SCALE 1"=300'



Fill Material

MAKAKILO QUARRY UPPER AERIAL IMAGE
UPDATED DECEMBER 11, 2017
DATE OF AERIAL SEPTEMBER 14, 2017



WILSON OKAMOTO
CORPORATION
INNOVATORS • PLANNERS • ENGINEERS
1909 South Business Street, Suite 400
Humble, Texas, U.S.A. 75826
PH: 281-946-2277 FX: 281-946-2235
www.wilsonokamoto.com

0 150 300 FT
SCALE: 1" = 300'