



HAPI

HAWAII ASPHALT PAVING INDUSTRY

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Celebrating 30 YEARS



Improving Hawaii's Roads...
One Lane at a Time



HAPI

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HAPI's Active Members are companies whose primary business is the supply of asphalt for the manufacture of asphalt pavement, and asphalt suppliers.



30 Years of History

This year is the 30th anniversary of the Hawaii Asphalt Paving Industry (HAPI); it's a time to pause and reflect on our progress to date. We continue with a steady growth thanks to our members, and government and community partners.

WE ARE REACHING MORE PEOPLE

We have raised the awareness of our asphalt paving industry. Our monthly newsletter featuring our members' projects and industry updates now reaches over 2,000 people. We have also written articles for local and national magazines. In addition, we are active on social media such as Facebook, LinkedIn, and Twitter.

WE ARE A RESOURCE FOR EVERYONE

Have a question about asphalt pavements? – Call HAPI! Government agencies, owners, contractors, and consultants reach out to HAPI when they have a question. In addition to our local knowledge, we can tap the knowledge and experience of national organizations such as the Asphalt Institute (AI), the National Asphalt Pavement Association (NAPA), the National Center for Asphalt Technology (NCAT), and the Asphalt Pavement Alliance (APA), as well as the other 38 state pavement associations.

WE SEE A NEED AND FULFILL IT

HAPI's ability to identify a need and fulfill it is crucial to the growth of our industry. In the late 2000's, HAPI members recognized a problem developing from the inconsistent supply of high-quality asphalt binder. Industry's response was to construct an asphalt terminal near Kalaeloa Harbor, which has been in operation since 2009.



Asphalt Terminal Kalaeloa Harbor.

In 2014, the terminal expanded its operation to include locally produced modified asphalt binders to meet the market needs. A project to rehabilitate the pavement on the H-1 Freeway in 2014 was the first use of a locally produced modified binder in the SMA surface course. In addition, several airfield projects have used asphalt pavements produced with modified asphalt binder. Modified asphalt binders continue to be specified for Hawaii's asphalt paving projects.

About a year ago, the Hawaii DOT indicated that they wanted to use Stone Matrix Asphalt (SMA), a long-lasting pavement material for their roads. HAPI was aware that SMA was relatively new to the islands and recognized a need for improving the knowledge and understanding of SMA. HAPI and the State Highways Division's Work Force Development Program successfully partnered to bring these SMA training workshops conducted by NCAT to Hawaii.

Asphalt pavements are used for airfields as well. HAPI saw a benefit in having all parties involved with airfield pavements gain a common understanding about significant changes in the just released FAA Advisory Circular (AC) 150/5370-10H (more typically known as the P-401 specification). Working together with the Asphalt Institute, HAPI arranged for their Airfield Paving Clinic to come to Hawaii in July.

IN CLOSING

Hawaii's asphalt paving industry has greatly advanced over the past 30 years because of HAPI members who have paved a path forward and our relationships with our government agency and community partners.

The future is bright as we look forward to improving Hawaii's roads, one lane at a time.

Jon M. Young, PE, FASCE, ENV SP, LEED AP
Executive Director



Resurfacing - What does it really mean

Paving contractors are often asked by property managers and owners to resurface asphalt areas such as parking lots. This article will hopefully answer whether a resurfacing or complete reconstruction is needed. Here's a brief breakdown of the three re-surfacing scenarios.

Scenario 1: Your asphalt parking lot or area has the following conditions:

- Cracked and “alligatored” areas that cover most of your asphalt lot.
- A significant amount of potholes.
- A large amount of rock debris that has come off of the parking lot and is collected throughout the lot.

If these conditions exist, plan on an asphalt re-construction of your parking lot. This involves the complete removal of the existing asphalt down to the base course. The lot is then paved with hot asphalt and compacted for a new parking surface. Reconstruction tends to cost the most, but it gives the owner the best long-term solution.

Scenario 2: Your asphalt parking lot has the following conditions:

- Asphalt is in decent shape but has a lot of loose rock and debris on it from wear and tear.
- Small amounts of cracking and “alligatored” areas exist but are a small percentage of the total lot area.

Your lot may be a candidate for an asphalt overlay. Basically, a new layer of asphalt will be placed over the existing pavement and compacted in place. Asphalt overlay is a cheaper way to get a new surface look and feel.

Scenario 3: Your asphalt parking lot has the following conditions:

- Asphalt is in good shape and has minimal wear and tear.
- Small amounts of asphalt areas need repair.

Then your lot is a good candidate for a sealcoat. Sealcoating helps preserve your asphalt and stretch out its life by giving it a new wearable surface and “lock-in” rock from being turned out by vehicles and heavy traffic. It

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Maintaining, Protecting and Preserving Your Asphalt Pavement

Asphalt pavement maintenance may not seem as sexy as the latest landscaping trends, the look and savings from new LED lighting, or how much your new solar array is going to do for you. But maintaining your pavement should not be overlooked when implementing strategies to increase curb appeal and reduce maintenance costs.

Without maintenance, anything will wear out over time, and the more worn out things get, the more expensive they are to replace. Asphalt pavement is a simple blend of two main components, molten liquid asphalt and crushed rock or aggregate.

In Hawaii, we have the best weather, but the combination of sun and moisture takes its toll on pavement. As asphalt ages and is exposed to heat and ultraviolet sunlight, it becomes more brittle or oxidized, leading to cracking and deterioration. Moisture penetrating into the underlying base structure can cause larger cracking, potholes, rutting, raveling and loss of structural strength.

The top four things your pavement maintenance plan should include are crack filling, pothole repair, sealcoating, and line striping. A maintenance schedule that includes these four things will more than double the life cycle of your pavement while giving you maximum curb appeal.

Filling cracks immediately will help reduce the risk of larger problems and expenses later. Cracks in your pavement come from two main sources. First is from base erosion. This happens when the base settles under the asphalt, causing cracking

from beneath that eventually surfaces. Second, and the most common, is from the sun.

Potholes occur when cracks are not repaired in a timely manner and most can be

repaired easily with a pothole patch product and a tamper.

Sealcoating periodically with a pavement sealer should be at the center of an effective pavement maintenance program.

CONT. ON PAGE 7

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How important is an asphalt consultant?

Do it yourself (DIY) or hire a consultant? That is the question asked by many property and facility managers when it comes to taking care of their asphalt parking lots.

Ask yourself the following questions:

- Can I make an evaluation of the pavement condition?
- Am I familiar with the applicable rules, regulations, and standards?
- Do I know what paving and maintenance options are available?
- Do I know how to make a bid package of plans and specifications?
- Am I familiar with construction permits needed and typical practices?

It's a DIY project if your answer to the above questions is a "yes", but if most of your responses are a "no", it may be time you consider hiring a professional civil engineering company as your consultant.

Property and facility managers need to maintain or improve their parking lot for the comfort and use of their tenants or customers. Often, they request contractors to bid on their job without any plans or specifications. This process typically results in the bidders having different interpretations of the scope of work. The submitted bids end up having very different quantities and costs, making it difficult for a manager to determine which bid will give them the results they desire.

As part of their services, a consultant can:

- Evaluate the existing pavement deficiencies and determine the appropriate repair.
- Determine if the pavement needs to have a surface treatment applied or the lot repaved.
- Help the manager to prepare a clearly defined scope of work that balances the options for improvements within the available funding.
- Discuss construction phasing of the project to minimize the effect on the occupants of the facility.
- Prepare a set of plans and specifications that contractors can use to estimate their work, resulting in comparable bids.
- Inform the manager of the required permits and



Photo Courtesy of The Limtiaco Consulting Group

provide help and guidance for obtaining them.

- Review the bids for compliance to the plans and specifications.
- Assist during the construction to see that the work is in general conformance with the plans and specifications.

If you decide to hire a consultant, how do you find one? A couple of suggestions for finding a consultant are: 1) ask other managers who they have used for their facilities, and 2) check with the Hawaii Asphalt Paving Industry for their list of consultant members who have experience with the design and construction of parking lots.

Before you select a consultant, you may want to discuss your project with 2 or 3 companies to gain an understanding of their approach to solving your situation. Select the consultant that has the best understanding of your needs and has the qualifications to provide the services needed for the project. Based on these criteria, the selected consultant may not have the lowest fee, but will strive to design a quality project that will save money not only during design and construction, but over the life of the project. Most importantly, select a consultant that you feel comfortable working with.

If you are unfamiliar with the requirements of the design and construction process, please consider hiring a consultant to help you. A consultant will act as your expert on parking lot improvements, and will work with you to achieve your goals for the project with considerations of your schedule and budget. Best of all, a consultant will help to ensure the result of your project matches your expectations and is something you can be proud of.

Jon Young is the executive director of the Hawaii Asphalt Paving Industry (HAPI).

always recommended it within a year of a new paving job to help it last as long as it possibly can.

What will you get when you tell three bidders (asphalt contractors) to bid on re-surfacing your parking lot? It is imperative for property managers and owners to be crystal clear about what they want and ask the correct questions, such as:

- What is the scope of work you plan on implementing? Compare all bids based on scope.
- Ask why each contractor has a different solution to the re-surfacing!
- Do you have the proper equipment to do the project?

- How much experience does your company have doing this?
- Is your company licensed for this type of work?
- Provide a timeline for the project along with a schedule.
- How long will this last?
- What do you recommend for proper maintenance?

Armed with this knowledge, property managers and owners can get more detailed answers to a broad request and in turn make a much more informed decision that will benefit their assets.

Chris R. Laird is President and RME for DC Asphalt Services.

A properly applied sealcoat covers your pavement, becoming a protective wear layer that stops water penetration and is resistant to oil and gasoline. A proper sealcoat should give you a nice new deep black look.

Line striping usually is the most noticeable part of a newly sealed or paved area because the bright colors really pop on top of the deep black surface.

From buildings to grounds, your level of commitment as property manager to maintenance reflects in your property's image. Your roads and parking lots are the "welcome mat" to your property, it is the first impression customers and tenants.

Kia Kamaau is the Plant Operations Manager for SealMaster.

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Project Highlights



Hilo Drag Strip Renovations

Yamada & Sons, Inc.

The Hilo Drag Strip opened the weekend of March 10-11, 2018 after being closed more than two years for renovations.

The drag strip closed in November 2015 for renovations, including repaving the racing surface and making improvements to the oval track. A modified asphalt binder was used to make the asphalt mix, providing a more rut-resistant paved surface.

The strip is used by the Big Island Auto Club and Hawaii Drag Racing League and a really a big part of the population was delighted to have it re-open.



NAVFAC Indefinite Delivery Indefinite Quantity (IDIQ) Contract for Paving

Road Builders Corporation

This IDIQ pavement maintenance contract is for all NAVFAC military installations state-wide. The scope of work includes road widening, new sidewalks and utility upgrades.

Working on a military installation can be difficult. Challenges include treatment of contaminated soils, restricted use of mobile phones, and scheduling work to accommodate base activities.

The projects under this IDIQ contract are improving the infrastructure for the men and women who put their lives on the line to defend our country as well as their military families and civilian employees who live and work on military installations.



Saddle Road East Side

Road and Highway Builders

The project involved the construction a new realigned 6-mile section of Saddle Road between mileposts 5.7 and 11.7. The roadway was upgraded to a 52-foot paved width and straighter alignment.

A unique challenge for the project was preventing the spread of the Rapid Ohia Death disease. RHB also contended with the difficulty of paving on steep grades. Unpredictable rainfall events needed to be accounted for in scheduling of the work.

The completion of the East Side project is a significant milestone by safely connecting the communities of East and West Hawaii.



Hansen Road Pavement Reconstruction

Maui Paving, LLC

The reconstruction of the pothole ridden Hansen Road pavement on Maui was a total reconstruction project near the HC&S sugar mill.

Improvements included removal of existing pavement and construction of a new pavement section consisting of aggregate base, hot mix asphalt base course, and hot mix asphalt pavement. It is one of the first major projects on Maui to use recycled asphalt base and recycled State Mix IV.

The reconstructed road is wider and paved shoulders give bicyclists a safe place to ride. With the substantial improvement made to the pavement structure, Hansen Road should serve the County of Maui for a long time.

Runway 26L Pavement Improvements, Honolulu International Airport

Jas. W. Glover, Ltd.

In 2013, Runway 8R/26L, also known as the Reef Runway, got its first resurfacing since it opened in October 1977.

Any reconstruction of a runway project is complex; this project even more so due to the short time frame allotted. The project required 92,000 tons of asphalt pavement for the entire runway, which required crews to place between 3,000 and 5,000 tons per night.

Use of the Trimble 3D PCS900 Paving Control System for milling machines and a Trimble PCS900 3D Paving Control System for asphalt pavers kept the project on schedule and helped Glover meet the extremely tight tolerances and specifications for smoothness and finished elevations.



Island-wide Road Resurfacing – Kauai

Grace Pacific, LLC

The already lush Garden Isle of Kauai was made greener by using a sustainable practice - the use of Reclaimed Asphalt Pavement or RAP, recycled into the new surface layer of asphalt pavement.

In addition, for the Kokee Road Resurfacing project, the County of Kauai also received the benefit of another recycled product, Recycle Asphalt Treated Base (RATB), which is produced using RAP.

By using recycled products, Grace was able to keep this project within budget. Recycled products are expected to not only extend the life of newly resurfaced roads but also make future projects recyclable, sustainable, and greener!



Queen Kaahumanu Highway Widening Phase 2

Grace Pacific, LLC

The Queen Kaahumanu Highway was widened from 2-lanes to 4-lanes, for a little more than 5 miles in both directions, from Kealakehe Parkway to Keahole Airport Road.

In addition to the widening of the road, the effort resulted in six new signalized intersections, as well as 4.5 miles of new water lines. The project also included a new sewer system to move wastewater from regional developments to the Kealakehe Wastewater Treatment Plant and an R-1 line to bring back treated water.

The completed project provided much needed traffic relief to the West Hawaii Community.



Pavement Management Systems

Pavement Management Systems (PMS) help determine cost effective ways to upgrade, maintain and preserve paved surfaces.

In 2006, HDOT, HAPI, and the Federal Highways Administration (FHWA) took a scanning tour of pavement preservation techniques around the country and joined forces, along with the Cement and Concrete Products Industry (CCPI), in a pavement preservation partnering agreement to maintain Hawaii's vast and varied network of roads. Since then, all counties and the HDOT have implemented a pavement management system.

Preventive measures like crack filling, seal coats, and slurry and chip seals are now widely utilized to enhance pavement longevity and reduce maintenance costs.



HAPI Membership Directory

Members' Service Categories

A a company that has an independent asphalt lab

C a company that provides consulting engineering services, including construction management

E a construction or lab equipment supplier

L a company that does asphalt paving

M a material supplier

O a non-paving or non-pavement treatment contractor

P a company that produces hot mix asphalt

Q a company that has a quarry

T a company that applies pavement treatments such as crack repair, seal coat, and slurry seal

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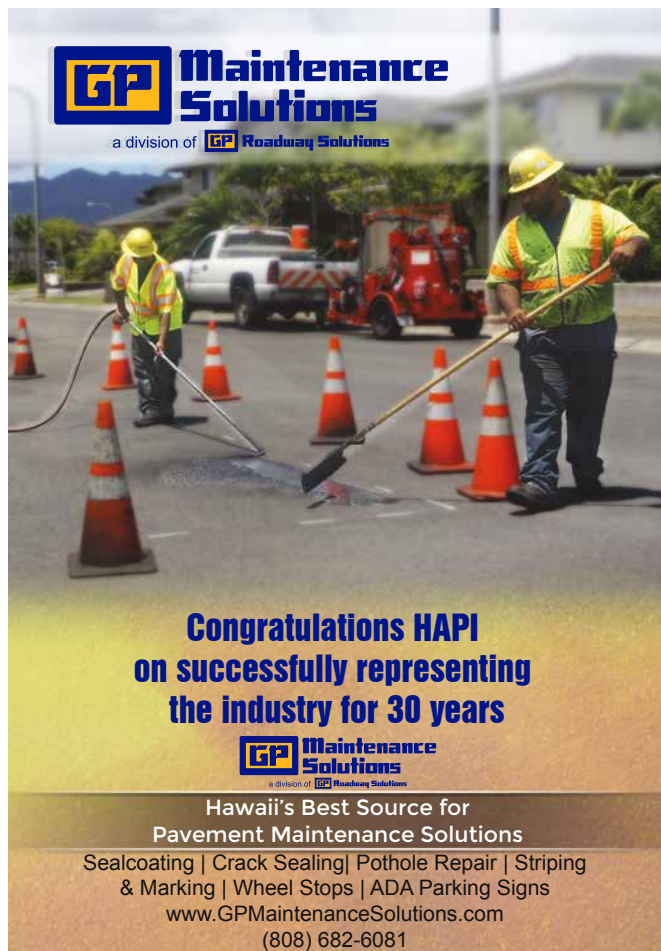
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Pacific Geotechnical Engineers, Inc. **C**

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Pavement Management Solutions, Inc. **C**

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Peterson Bros. Construction, Inc. **L T**

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Email: info@petersonbroshawaii.com
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Quality Paving Consultants **C**

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Website: www.roadandhighwaybuilders.com

Road Builders Corporation **L M P**

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ROADTEC, Inc. **E**

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Contact: Mark Smith
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Website: www.roadtec.com

Rons Construction Corp. **L**

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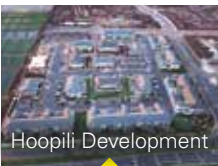
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HAPI EDUCATIONAL RESOURCES

One of the missions of HAPI is to have continual learning for the contracting and design community. Below are resources that can be accessed by scanning the QR codes. See the full website for more information, <http://hawaiiasphalt.org>

ASPHALT GUIDE

HAPI Asphalt Pavement Guide is an interactive guide to everything about asphalt pavements and pavement treatments.



TRAINING PROGRAM

The HAPI Training Program provides educational seminars and workshops that are regularly scheduled (i.e. once every year).



ONLINE LIBRARY

A library of articles and references about asphalt pavement and pavement treatments offer information about current developments within the industry.





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HAPI Calendar

Be on the lookout for upcoming workshops and events. Visit our website for the most current listing, <http://hawaiiasphalt.org/news-events/calendar-of-events/>

JANUARY:

- HAPI Lunch Meeting

MARCH:

- Understanding a Job Mix Formula Submittal workshop

APRIL:

- Best Practices for Asphalt Pavements workshops
- Best Practices for Asphalt Pavements – The Next Level workshops

MAY:

- Use of PaveXpress and PaveInstruct workshop
- AASHTO TSP2 Preservation Treatment Certification Exams

JULY:

- HAPI Lunch Meeting

SEPTEMBER:

- Understanding a Job Mix Formula Submittal workshop

OCTOBER:

- Use of Geosynthetics for Asphalt pavements workshops
- HAPI Scholarship applications due

NOVEMBER:

- Use of PaveXpress and PaveInstruct workshop
- AASHTO TSP2 Preservation Treatment Certification Exams

DECEMBER:

- HAPI Holiday Lunch Meeting for members only

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