

State of Hawaii Department of Transportation

# Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive

Public Information Meeting and Noise Variance Consultation

Kukahi Street, Pier 19 Ferry Terminal, Nimitz Highway  
June 25, 2019



## Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Public Information Meeting Purpose

- Provide information to the community about the planned project improvements.
- Invite comments for the Community Noise Variance Application (CNV). Comments will be used by the State Department of Health, Indoor and Radiological Health Branch (DOH-IRHB) to evaluate the noise variance request.
- Understand community concerns and answer questions so we can mitigate the project's impact to the neighboring public.



Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

# Public Information Meeting Agenda

- Need for the Project
- Construction Scope of Work
- Community Noise Variance Application
- Questions and Answers
- Meeting ends at 8:00 p.m.



Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## Purpose and Need

The existing Nimitz Highway to Ala Moana Boulevard, from Kalihi Stream Bridge to Atkinson Drive needs reconstruction and resurfacing to improve the level of maintenance and make operational improvements for all highway users





# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Project Location





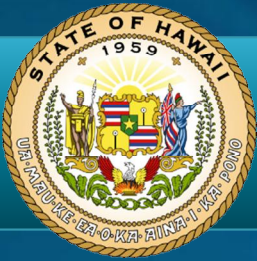


# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

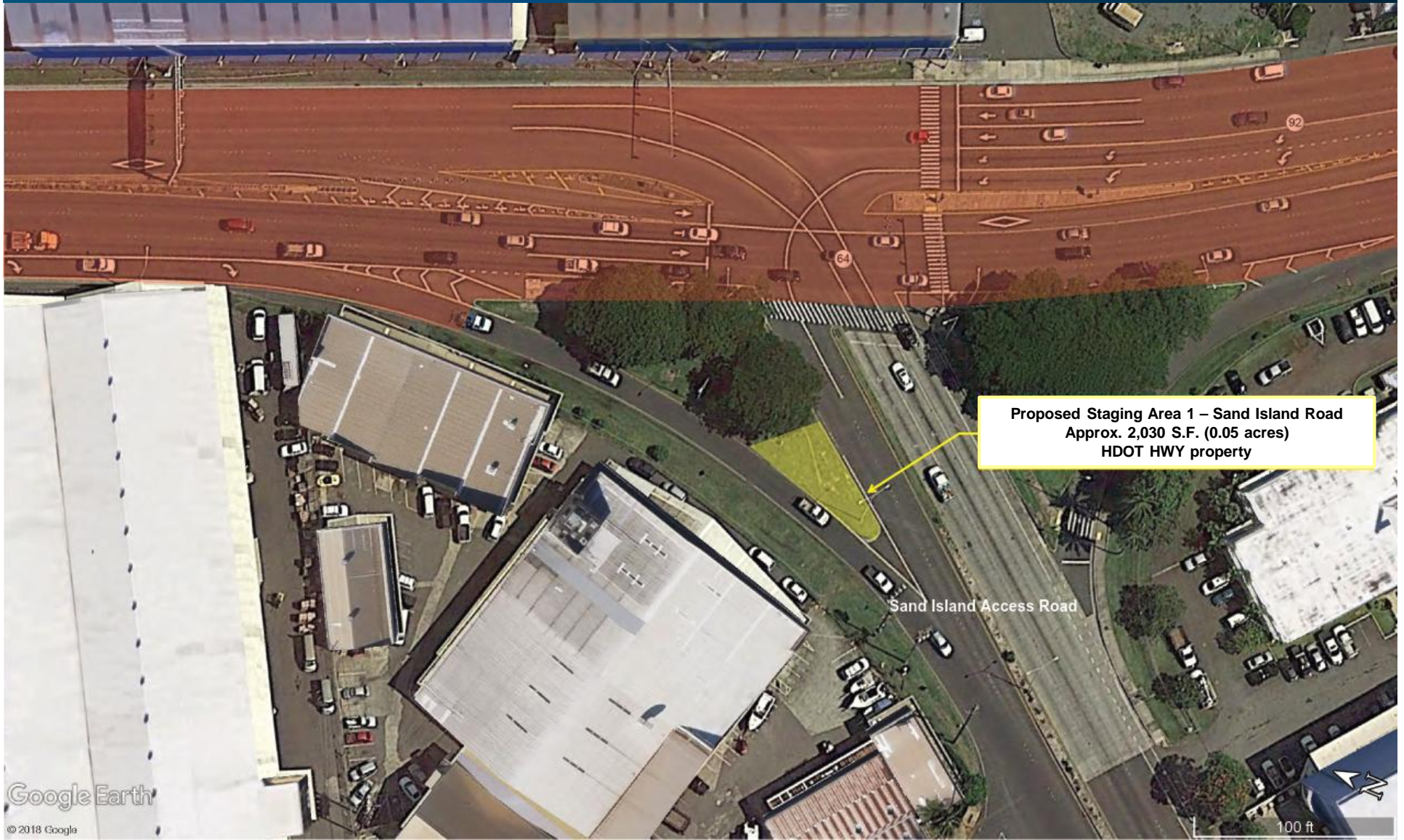
## Project Location



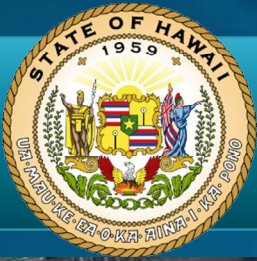




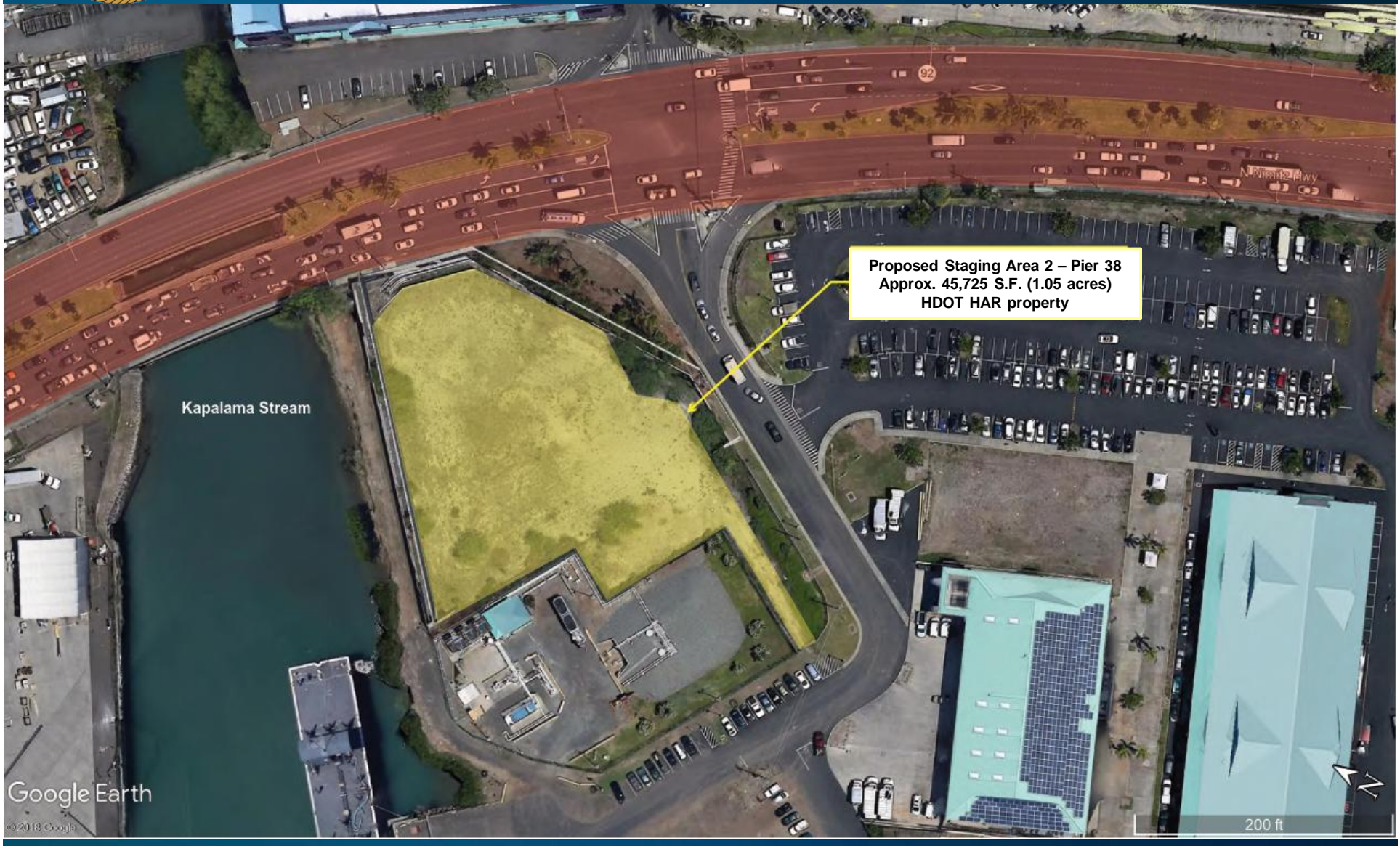
# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Project Location (Staging Area 1)







# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Project Location (Staging Area 2)



Proposed Staging Area 2 – Pier 38  
Approx. 45,725 S.F. (1.05 acres)  
HDOT HAR property

Kapalama Stream

Google Earth

© 2018 Google

200 ft





# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Project Location (Staging Area 3)



Proposed Staging Area 3 – Kukahi Street  
Approx. 29,900 S.F. (0.69 acres)  
HDOT HAR property





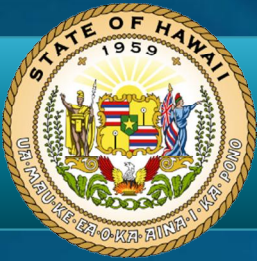
# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Project Location (Staging Area 4)



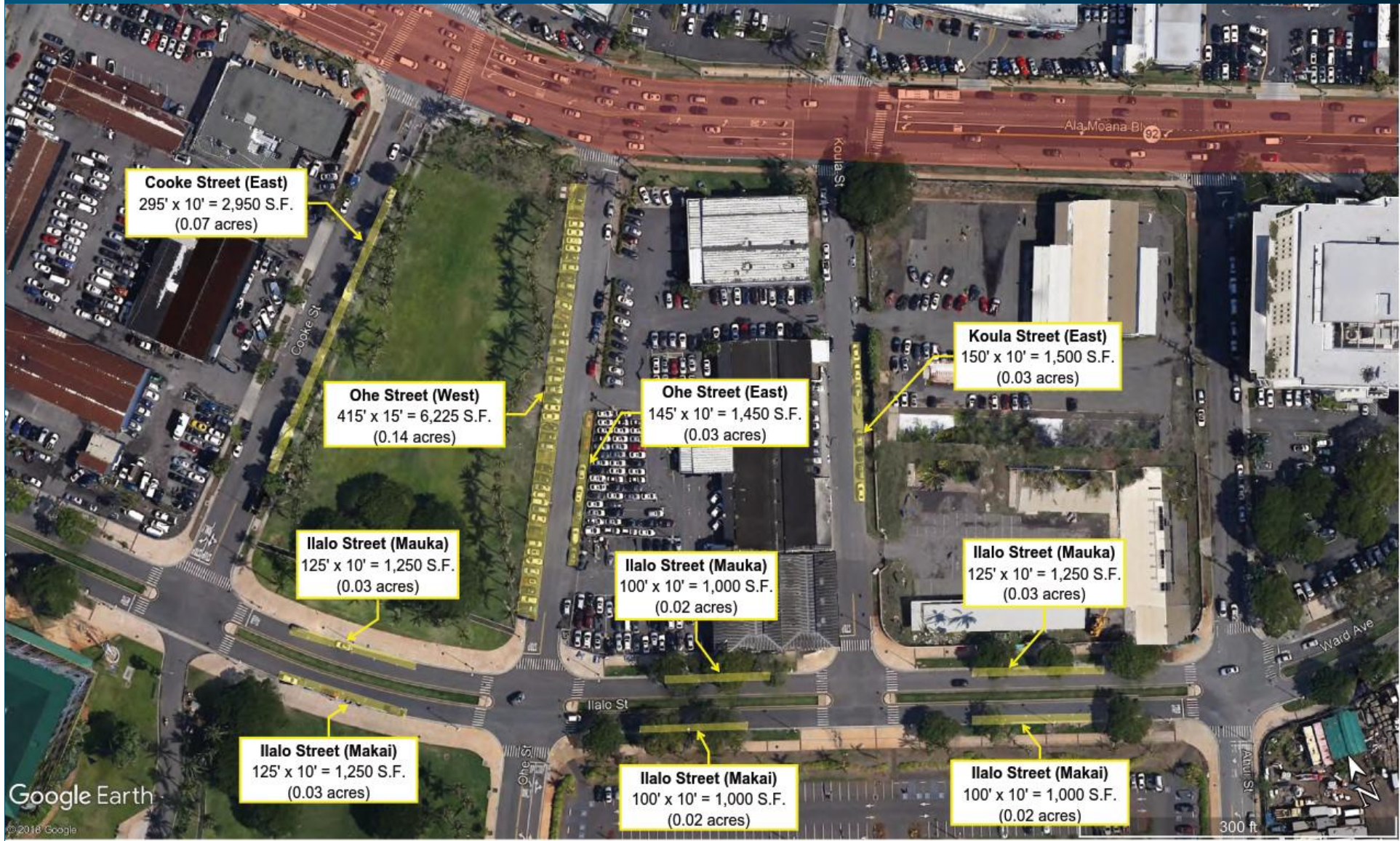
Google Earth

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# Nimitz Highway and Ala Moana Boulevard Resurfacing, Kalihi Stream Bridge to Atkinson Drive Project Location (Staging Area 5)





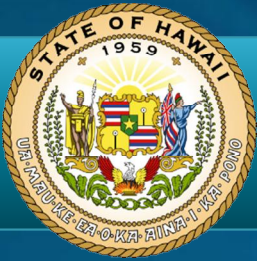


Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## Project Scope

- Cold Planing – removing top layer of pavement
- Resurfacing – replacing the cold planed area
- Reconstruction of weakened pavement areas
- Adjusting utility manhole frames and covers
- Replacing existing loop detectors, traffic counting stations, and weigh-in motion stations
- Installation of pavement markings
- Striping.





Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## What to Expect?

### Proposed Schedule

Tentative Start Date      *September 2019*

Tentative Completion      *October 2020*

*(Approximately 13 month Construction Duration)*

### Proposed Time of Construction Activities:

- Sunday      12:01 a.m.      to      Monday      5:30 a.m.
- Monday      7:00 p.m.      to      Tuesday      5:30 a.m.
- Tuesday      7:00 p.m.      to      Wednesday      5:30 a.m.
- Wednesday      7:00 p.m.      to      Thursday      5:30 a.m.
- Thursday      7:00 p.m.      to      Friday      5:30 a.m.

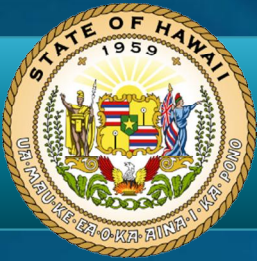


## Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Lane Closures

### During Noise Variance hours:

- At least one lane of traffic in each direction will be open at all times during Weekdays (Monday 12:01 a.m. to Friday 5:30 a.m.)
- On Sunday, two lanes of traffic in each direction will be open at all times
- Access to adjacent residences and businesses will be maintained



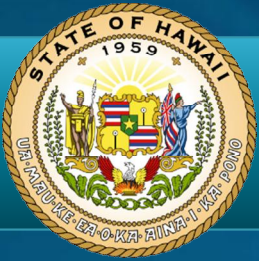


Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

# What to Expect?

## Construction Activities

Activity 1	<ul style="list-style-type: none"><li>• Installation of traffic control measures.</li><li>• Mobilization of equipment and tools.</li></ul>
Activity 2	<ul style="list-style-type: none"><li>• Adjustment of Manhole Frames and Covers.</li></ul>
Activity 3	<ul style="list-style-type: none"><li>• Cold Planing</li></ul>
Activity 4	<ul style="list-style-type: none"><li>• Reconstruction of Pavement and Installation of Temporary Striping</li></ul>
Activity 5	<ul style="list-style-type: none"><li>• Paving work and Installation of Temporary Striping.</li></ul>
Activity 6	<ul style="list-style-type: none"><li>• Replacing Existing Loop Detectors, Traffic Counting Stations, and Weigh-In Motion Stations</li></ul>
Activity 7	<ul style="list-style-type: none"><li>• Installation of Permanent Striping</li></ul>



Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

# Community Noise Variance Application

## Why Nightwork?

HDOT is requesting the Noise Variance as construction during the daytime would have severe impacts associated with traffic delays that would be detrimental to the community.





# Community Noise Variance Application

## Noise Regulations

HAR Title 11, Chapter 46 sets the rules and restrictions on sound levels for construction projects. It states:

*"No permit shall allow any construction activities which emit noise:*

- Monday through Friday before 7 a.m. and after 6 p.m. of the same day*
- Saturday before 9 a.m. and after 6 p.m.*
- Sundays and on Holidays"*

A Community Noise Variance must be obtained for any construction activities to occur outside the permissible hours (e.g., after 6 p.m. weekdays).



Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

# Community Noise Variance Application

## Proposed Noise Variance

- Variance application requests work be allowed every night, except Friday and Saturday nights, from 7:00 p.m. to 5:30 a.m. and Sundays from 12:01 a.m. to Monday 5:30 a.m.
- Requesting up to two years to allow for unforeseen events/conditions. Approximate duration of construction is estimated to be 13 months.
- Equipment producing noise levels of 85 decibels or higher will only be used when necessary.



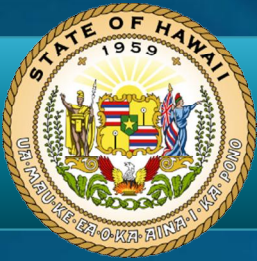


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# Community Noise Variance Application

## Pre-Construction Outreach

- Schedules will be distributed once the Contractor is contracted
- HDOT will hold a Pre-Construction meeting at least two weeks prior to start of construction
- Affected Residences and Businesses will be sent notices with the Contractor's job-site representative available 24/7 to call in advance of night and Sunday work



# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive Community Noise Variance Application

## Typical Sound Levels

Relative Sound Level	$\frac{1}{2}$ as loud		Baseline		Twice as loud		Four times as loud	
Typical Sound Environment	Indoor Office		Urban Residential		Urban Commercial			
Lmax of Common Noise Sources		Washing Machine (3 ft)	Auto (50 mph at 50 ft)	Vacuum Cleaner (3 ft)	Garbage Disposal (3 ft)	Delivery Truck (50 mph at 50 ft)	Dump Truck (50 mph at 50 ft)	Blender (3 ft)
Sound Level dBA	60	65	70	75	80	85	90	
Lmax at 50 ft of Transit Noise Source	Rail Transit with a Barrier (50 mph)				Rail Transit City Bus (50 mph) (50 mph)			

Source: EPA 1971, EPA 1974, FTA 2006





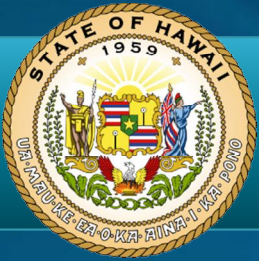
# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## Equipment List

Equipment	Decibels at 50 ft.
Power Broom	67
Spreader (Paving Machine)	82
Front Loader	79
Light Tower	62
Concrete Saw	78
Vacuum*	85
Static Rollers	75
Vibratory Rollers	83
60 to 80 lbs. Pneumatic Pavement Breaker (Jackhammer)*	88
Jumping Jack*	100
Compressor (Air)	81
Generator	76
Grader*	85
Dump Truck	78
Pick up Truck	75
Labor Truck	75
Flatbed Truck	75

Equipment	Decibels at 50 ft.
Hauling Truck	78
Backhoe*	85
Water Truck	75
Striping Machine	78
Cold Planing Machine	83
Bobcat Skid Loader*	85
Electric Mudgun*	85
Komatsu Mini Excavator*	85
Backhoe with Hammer*	90
Paver*	93.1
Shuttlebuggy*	94.2
Rubber Tire Roller (Sakai)*	91.6
Steel Drum Roller (Dynapac)*	89.7
Steel Drum Roller (Hypac)*	99
Steel Drum Roller w/vibration (Bomag)*	95.6
Kickout broom (Kubota)	84

\* Equipment with Noise Level Readings of 85 Decibels or more



# Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## Equipment List

Equipment	Decibels at 50 ft.
Backhoe (Case)*	94.1
Steel Drum Roller (Sakai)*	103
Striping Truck*	87.5
Vac Truck with Sweeper	82
Distributor Truck	78
Plate Compactor/Tamper*	85
Propane Truck	78

\* Equipment with Noise Level Readings  
of 85 Decibels or more





# Community Noise Variance Application

## Construction Noise Reduction

- Maintain all equipment in good working order
- Use of adequate sound mufflers and intake silencers for construction equipment
- Locate compressors and generators as far from residences as possible
- Contact information for the designated Contractor Representative to address complaints and will be available 24/7.



Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

# Community Noise Variance Application

## Community Noise Variance Application

- Application was submitted to Department of Health for night work to occur, except Friday and Saturday nights, from 7:00 p.m. to 5:30 a.m. and Sunday from 12:01 a.m. to Monday 5:30 a.m.



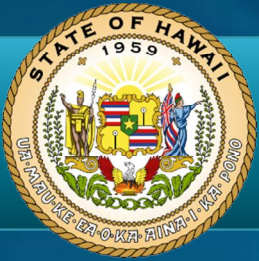


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## Questions and Answers

- Please be respectful to those speaking
- Please keep focused on the noise variance issues for the proposed project





Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## More Information

HDOT

[dotpao@hawaii.gov](mailto:dotpao@hawaii.gov)

[hidot.hawaii.gov](http://hidot.hawaii.gov)

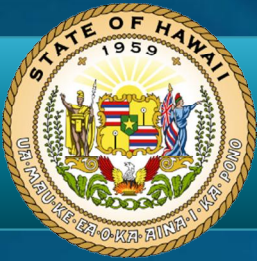
HDOT Facebook & Twitter

587-2160

HDOT Oahu Lane Closures

<http://hidot.hawaii.gov/highways/roadwork/oahu/>





Nimitz Highway and Ala Moana Boulevard Resurfacing , Kalihi Stream Bridge to Atkinson Drive

## More Information

### Comments on Noise Variance

The 14-day Public Comment Period  
for the Proposed Community Noise Variance is until  
July 10, 2019.

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# Mahalo!